

**SAMANTA CHANDRASEKHAR INSTITUTE  
OF TECHNOLOGY & MANAGEMENT**  
SEMILIGUDA-764 036, KORAPUT

DEPT. OF...CIVIL ENGINEERING.....

**LESSON PLAN AND PROGRESS REGISTER**

(To be maintained by all members of the teaching staff)

SESSION...2022-2023.....

NAME MADHURI SAGAR  
DESIGNATION Lecturer, CIVIL  
DEPT. CIVIL ENGINEERING

  
SIGNATURE

This Lesson Plan and Progress Register is to be submitted to the Director for verification and counter signature twice in every semester. The H.O.D. must verify and sign this Register before submission.

## COURSES ALLOTTED

FOR DIFFERENT BRANCHES & SEMESTER (Degree/Diploma/+2 Science)

Semester

Course No.

Course Title

3<sup>rd</sup>

Th4.

Estimation &  
Cost Evaluation-I



### LESSON PLAN

Degree/Diploma/+2 Science  
(Theory/Pract/Lab/Workshop)

Semester 3rd Branch CIVIL Engineering

Month & Date	Course No. & Title	Brief note of the topics to be covered	No. of Classes Required
	Th 4. Estimation & cost Evaluation I	Tile flooring, concrete flooring R.C.C. with contouring and shuttering, reinforcing steel, painting of doors and windows etc. as per OPWD.	
17/11/22 to 22/11	-do-	3.2 Calculation of lead, lift, conveyance charges, royalty of materials, etc. as per OPWD system (concept of C.P.W.D./ Railway provisions)	05
23/11 to 25/11	-do-	3.3 Abstract of cost of estimate	03
25/11 to 29/11	-do-	3.4. Valuation. Value and cost, scrap value, salvage value, assessed value, sinking fund, depreciation and obsolescence, method of valuation.	03
		4. Administrative set up of Engineering Organisation	
30/11 to 5/12	-do-	4.1 Administrative setup and hierarchy of Engineering department in state Govt., central Govt./PSUs/ Private sectors etc. Duties and responsibilities of Engineer at different positions/levels	04

### PROGRESS

Degree/Diploma/+2 Science  
(Theory/Pract/Lab/Workshop)

Semester 3rd Sem. Branch Civil Engineering

Date	Course No. & Title	No. of Student Present	Mention the Topics covered	If not taken mention the reasons	Remarks/ Signature of HOD/Director
31/10/22	Th 4. ESTIMATION		Analysis of rates for cement concrete, total manning in cement mortar, salicite stone		
1/11/22	COST EVALUATION				
5/11/22	↑		masonry in cement mortar, cement plaster		
7/11/22			white washing Artificial stone		
9/11/22			flooring. Tile flooring		
10/11/22			Concrete flooring		
14/11/22			R.C.C. with contouring and shuttering,		
15/11/22			reinforcing steel, painting of doors		
16/11/22			and windows etc as per OPWD		
17/11/22	do		Calculation of lead, life, conveyance		
19/11/22			charges, royalty of materials, etc. as per OPWD system		
21/11/22			What is the concept C.P.W.D. or Railway provisions		
22/11/22			Abstract of cost of estimate		
23/11/22			Valuation - value and cost, scrap value,		
30/11/22			salvage value, assessed value, sinking		
1/12/22			fund.		





### LESSON PLAN

Degree/Diploma/+2 Scie  
(Theory/Pract/Lab/Worksh)

### PROGRESS

Degree/Diploma/+2 Science  
(Theory/Pract/Lab/Workshop)

Semester <u>5<sup>th</sup></u>		Branch <u>CIVIL Engineering</u>		Semester <u>5<sup>th</sup></u>		Branch <u>Civil Engineering</u>		If not taken mention the reasons	Remarks/ Signature of HOD/Director
Month & Date	Course No. & Title	Brief note of the topics to be covered	No. of Classes Required	Date	Course No. & Title	No. of Student Present	Mention the Topics covered		
September	Th.5.	1. Detailed estimate of culvert and bridges			Th.5		Detailed estimate of Culvert and bridges		
15/09/2022 to 23/09/2022	Estimation & cost Evaluation	1.1 Detailed estimate of a R.C.C. slab culvert with right angled wing walls with bar bending schedule.	07	1/09/22	ESTIMATION & COST EVALUATION		with examples. Detailed estimate of a R.C.C. slab culvert with right angled wing walls with bar bending		
24/09	-do-	1.2. RCC Hume pipe culvert with splayed angled wing wall	05	2/9/22	↑		schedule with examples RCC Hume pipe culvert with splayed angled wing wall		
29/09		2. Estimate of irrigation structures.		1/9/22			Estimate of irrigation structures with examples		
30/09 to 14/10	-do-	2.1 Detailed estimate of simple type of vertical fall to given specification.	07	6/9/22			Detailed estimate of simple type of vertical fall to given specification.		
15/10 to 22/10	-do-	2.2. Detailed estimate of drainage siphon to given specification.	07	1/9/22 to 0/9/22			Detailed estimate of drainage siphon to given specification.		
		3. Detailed estimate of roads		do → do			Detailed estimate of roads.		
26/10	-do-	3.1 Detailed estimate of a water bound macadam road.	02	0/10/22			Detailed estimate of a water bound macadam road.		
27/10 to 28/10	-do-	3.2 Detailed estimate of a flexible pavement in cutting/filling	09	1/10/22			Detailed estimate of a flexible pavement in cutting/filling.		
07/11				3/10/22			Detailed estimate of a septic tank		
09/11	-do-	3.3. Detailed estimate of septic tank and soak pit for 50 users.	01	4/10/22			and soak pit for 50 Users by giving an example		

*(Signature)*  
HOD/Director

**LESSON PLAN**

Degree/Diploma/+2 Sci  
(Theory/Pract/Lab/Workshop)

**PROGRESS**

Degree/Diploma/+2 Science  
(Theory/Pract/Lab/Workshop)

Semester 5<sup>th</sup>

Branch CIVIL Engineering

Semester 5<sup>th</sup> Branch Civil Engineering

Month & Date	Course No. & Title	Brief note of the topics to be covered	No. of Class Requir	Semester		Mention the Topics covered	If not taken mention the reasons	Remarks/ Signature of HOD/Director
				Date	No. of Student Present			
	Th 5. Estimation	4. Miscellaneous Estimate		5/10/22		Miscellaneous Estimate		
10/11 to 17/11 to 18/11 to 24/11	Cost Evaluation-17	4.1 Tube well, pile & pile cap, isolated and combined footing	06	1/10/22		Tube well, pile and pile cap, isolated and combined footing with suitable examples		
		5. PWD accounts works		1/10/22		PWD accounts works		
		5.1 works		2/10/22		works - Definition		
25/11 to 26/11	-do-	5.1.1 Classification of work: original, major, repair, special repair, Quadrantal repair	02	5/10/22		Classification of work, original, major, repair work, annual repair, special repair, Quadrantal repair		
28/11 to 30/11	-do-	5.1.2 Concept of method of execution of work through the contractors and department, contract and agreement, work order, types of contract, piece work agreement	03	9/10/22		Concept of method of execution of work through the contractors and department, contract and agreement, work order, types of contract, piece work agreement		
		5.2. Accounts of works		1/10/22		Accounts of works		
1/12 to 03/12	-do-	5.2.1: Explanation of various terms: Administrative approval, technical sanction, tender, preparation of notice inviting tender, quotation, earnest money, E-tendering, security deposit, advance payment, intermediate payment, final payment	03	1/11/22		Discussion of few questions from sample paper		
				5/11/22		Administrative approval, technical sanction, tender, preparation of notice inviting tender, quotation, earnest money		
				1/11/22				
				9/11/22				



### LESSON PLAN

Degree/Diploma/+2 Sc  
(Theory/Pract/Lab/Work)

### PROGRESS

Degree/Diploma/+2 Science  
(Theory/Pract/Lab/Workshop)

Semester 5th Branch Civil Engineering

Semester 5th Branch Civil Engineering

Month & Date	Course No. & Title	Brief note of the topics to be covered	No. of Class Reqs	Date	Course No. & Title	No. of Student Present	Mention the Topics covered	If not taken mention the reasons	Remarks/ Signature of HOD/Director
	Th 5. Estimation & Cost Evaluation	Running bill, final bill, regular and temporary establishment, cash, major & subhead of account, temporary advance, supervision charges, suspense account, debit, credit, bank transfers, voucher and related accounts.		5/11/22	Th 5 ESTIMATION		E-tendering, security deposits advance		
				7/11/22	Cost EVALUATION		payments, final payment - definition		
				2/11/22	↑		running bill, final bill, regular and temporary		
				4/11/22			establishment, cash major & subhead of		
05/12/2022 to 06/12/2022	do-	5.2.2 Measurement book use & maintenance, procedure of marking entries of measurement of work & supply of materials, labour employed, standard measurement books and common irregularity.	02	7/11/22			account, temporary advance, supervision		
				11/11/22			charges, suspense account, debit, credit, bank		
				11/11/22			transfers, vouchers and related accounts		
				11/11/22			Measurement book use & maintenance,		
07/12	do-	5.2.3 Muster roll - Its preparation & use for making payment of pay & wages.	02	11/11/22	do		procedure of marking entries of measurement of work & supply of materials, labour		
to 08/12				4/11/22			employed, standard measurement books		
		5.2.4. Acquittance Roll:- Its preparation & use of making payment of pay & wages.		11/11/22			and common irregularity.		
				5/11/22					
10/12	do-	5.2.5. Labour and Labour report, method of labour payment, use of forms & necessity of submission.	01	6/11/22			Muster roll - Its preparation & use for		
				8/11/22			making payment of pay and wages.		
13/12	do-	5.2.6. Classification of stores, receipt/issue	01	29/11/22			Acquittance Roll:- Its preparation & use of making payment of pay & wages.		

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### LESSON PLAN

Degree/Diploma/+2 Sc  
(Theory/Pract/Lab/Work)

### PROGRESS

Degree/Diploma/+2 Science  
(Theory/Pract/Lab/Workshop)

Semester 5th		Branch CIVIL Engineering		Semester 5th		Branch CIVIL Engineering			
Month & Date	Course No. & Title	Brief note of the topics to be covered	No. of Class Reqs	Date	Course No. & Title	No. of Student Present	Mention the Topics covered	If not taken mention the reasons	Remarks/ Signature of HOD/Director
	Th 5.	statement on Standard form, Estimation method of preparation of		12/22	Th 5.		about and about report method of		
	& Cost	Stock account, preparation and submission of returns,		12/22	Evaluation -II		Labour payment, use of forms last necessity of Submitters.		
		Verification of stocks, shortage and excess.		12/22	↑		Discussion of few questions.		
14/12/2022	-do-	5.3. Building BYLAWS and REGULATORY Bodies, Development authorities, types and their levels, RERA etc.	01	12/22			Classification of stores, receipt/issue.		
				12/22			statement on standard form, method of		
				12/22			preparation of stock account, preparation and submission of		
15/12	-do-	Revision of Detailed estimate of culvert & bridges and	03	12/22			returns, verification		
17/12		Road estimate		12/22			of stocks, shortage and excess.		
19/12	-do-	Revision of Estimate of irrigation structure	03	12/22	do		Building by laws and regulatory bodies.		
21/12		like simple type of vertical fall and drainage siphon		12/22			Development authorities types and their levels.		
22/12	-do-	Miscellaneous estimate revision.	01	12/22			RERA etc.		
				12/22			Revision of Detailed estimate of culvert and bridges and		
				12/22			Road estimate		
				12/22			Revision of Estimate of irrigation structure		
				3/12/22		✓	like simple type of vertical fall and drainage siphon.		

12/12/22  
PRINCIPAL  
RERA SECRETARY  
KSRAPUR

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### COURSES ALLOTTED

FOR DIFFERENT BRANCHES & SEMESTER (Degree/Diploma/+2 Science)

Semester	Course No.	Course Title
3 <sup>rd</sup>	Prc 3.	Estimating Practice - I
5 <sup>th</sup>	Prc 2	Estimating Practice - II

N.B. : Submission of Annual Lesson Plan-cum-Progress Register and performance Report for Assessment are responsibility of each faculty member.

### LESSON PLAN

Degree/Diploma/+2 Science  
(Theory/Pract/Lab/Workshop)

Semester 3<sup>rd</sup> Semester Branch Civil Engineering

Month & Date	Course No. & Title	Brief note of the topics to be covered	No. of Classes Required
22/9/22	Pt 3. Estimating Practice-I	1.0 Preparation of plinth area estimate and detailed estimate for the following	
15/10/22	↑	1.1 Single storied two room building with specification as per orissa P.W.D. schedule of rates and analysis of rates.	
20/10/22	←do→	1.2 A two storied pucca building with specification as per orissa P.W.D. schedule of rates and analysis of rates	
27/10/22	←do→	2.0 Analysis of rates in details for above items of work - basing on orissa, Govt. analysis of rate with help of MS excel software.	
5/11/22	do	3.0 Calculation of day materials for different items of building basing on orissa Govt analysis of rates with help of ms excel software	
10/11/22	←do→	4.0 Preparation of abstract of cost and bill of Quantities of estimate as per item no. 21 above with help of MS excel software	
17/11/22	←do→		
←do→	↓		

### PROGRESS

Degree/Diploma/+2 Science  
(Theory/Pract/Lab/Workshop)

Date	Course No. & Title	No. of Student Present	Mention the Topics covered	If not taken mention the reasons	Remarks/ Signature of HOD/Director
22/9	Pt 3. Estimating Practice-I	22	1.1 Estimate the quantity of two room building		
	↑		Use given plan and section (Ref. B.N. Dutta Book Page no 55 Fig 2.6)		
29/9		27	1.1 Continued the previous practical		
15/10		37	1.1 Estimate by center line method		
←do→			the following items of the two room building		
←do→			Ref. B.N. Dutta book fig 2.6)		
20/10	do	39	1.1 Continued with the previous practical		
27/10		34	1.2 The plan & section of an orise roomed building in Fig-1		
←do→			Find the detailed estimate of the quantities		
←do→					
3/11		42	2.0 Estimate the quantities of resident of building from the drawing (Fig 2.7)		
←do→			by B.N. Dutta Book		
←do→					
10/11	↓	39	2.0 Introduction of MS excel software and how to calculate the quantities of detailed estimate of building.		

# PROGRESS

Degree/Diploma/+2 Science  
(Theory/Pract/Lab/Workshop)

Semester 3<sup>rd</sup> Semester Branch Civil Engineering

Date	Course No. & Title	No. of Student Present	Mention the Topics covered	If not taken mention the reasons	Remarks/ Signature of HOD/Director
←do→	P.3. Estimating Practice-I		M.S excel work sheet.		
17/11	↑	39	2.0 Analysis of rate in detail for two room building bashing.		
←do→			rate analysis of Ms Excel worksheet.		
24/11		42	2.0 Estimate the whole two room building		
←do→			in center line method on MS Excel work sheet		
1/12		44	2.0 Estimate the quantities of residential building (Fig 27) in MS excel work sheet.		
←do→					<i>(Signature)</i>
8/12	do	40	2.0 Continued with previous practical.		
15/12		42	3.0 Calculation of dry materials of		
22/12		37	R.C.C & P.C.C Items of building with		
←do→			rate analysis with she help of MS Excel		
←do→			work sheet.		
5/1		40	3.0 Calculation of dry materials of D.P.C and Plastering work		
←do→			in MS excel work sheet.		
6/1	↓	42	3.0 Continued with previous practical		



### LESSON PLAN

Degree/Diploma/+2 Science  
(Theory/Pract/Lab/Workshop)

Semester 5<sup>th</sup> Semester

Branch Civil Engineering

Month & Date	Course No. & Title	Brief note of the topics to be covered	No. of Classes Required
September 22/9/22	Pr-2. Estimation Practice - II	Computer - Aided 1. Detailed Estimate of culvert and bridge.	
←do→			
24/9		1.1 Detailed Estimate of a R.C.C slab culvert with right angled wing walls with bar bending schedule.	
←do→			
27/9		1.2 R.C.C. Trench Pipe culvert with splayed angled wing wall.	
15/9		2. Estimate of irrigation structures.	
20/9		2.1 Detailed Estimate of simple type of vertical fall to given specification.	
←do→			
27/10	do	2.2 Detailed Estimate of drainage siphon to given specification.	
29/10		3. Detailed Estimate of roads.	
3/11		3.1 Detailed estimate of a W.B.M road.	
10/11		3.2 Detailed Estimate of a flexible pavement in cutting/filling.	
←do→			
17/11		4. Miscellaneous Estimate.	
24/11		4.1 Tube well; Piles and Pile cap, isolated and Combined footing.	

### PROGRESS

Degree/Diploma/+2 Science  
(Theory/Pract/Lab/Workshop)

Semester 5<sup>th</sup> Semester

Branch Civil Engineering

Date	Course No. & Title	No. of Student Present	Mention the Topics covered	If not taken mention the reasons	Remarks/ Signature of HOD/Director
September	Pr-2 Estimation Practice		Computer Aided		
22/9		19	1 Introduction classes for MS Excel software		
24/9		24	3.1 Estimate of W.B.M road in MS excel sheet		
27/9		24	3.2 Detailed estimate of flexible pavement in cutting/filling in MS excel worksheet		
←do→			Example - Ref.		
←do→			B.N Dutta book		<i>Approved</i>
13/10		25	3.2 Continued with the previous experiment in MS excel worksheet		
20/10	do	24	3.2 Continued with the previous experiment in MS excel work sheet.		
←do→					
27/10		26	3.2 Detailed estimate of a flexible pavement in cutting/filling		
←do→			Example - 4 (Ref)		
29/10		23	B.N Dutta book Pg 101 in MS Excel worksheet		
3/11		25	1.1 Detailed estimate of culvert with		
←do→			right angled wing wall (Ref: B.N		
←do→			Dutta Book Page no 375) in MS Excel work sheet		

# PROGRESS

Degree/Diploma/+2 Science  
(Theory/Pract/Lab/Workshop)

Semester 5<sup>th</sup> Semester Branch Civil Engineering

Date	Course No. & Title	No. of Student Present	Mention the Topics covered	If not taken mention the reasons	Remarks/ Signature of HOD/Director
15/11	Pr.2 Estimating Practice-II	26	1.2 Detailed Estimate of R.C.C. Hume pipe		
←do→	↑		Culvert with splayed angled wing wall		
←do→			(Ref - B.N. Dutta Book, Pg-399) in MS Excel		
←do→			work sheet.		
17/11		24	1.2 Continued with previous practical.		
24/11		26	2.1 Detailed estimate of simple type of		<i>Manish</i>
←do→			vertical fall to given specification with excel		
←do→			worksheet.		
1/12	do	25	2.1 Continue with previous practical		
8/12		26	2.2. Detailed Estimate of drainage syphon		
←do→			access minor bridge (Ref - B.N. Dutta Book		
←do→			Pg. 434) in MS excel worksheet.		
15/12		24	2.2. Continue with previous practical		
22/12		27	3.3 Detailed estimate of septic tank and soak pit for houses		
←do→	↓		in MS Excel worksheet		



