## INSTITUTE OF ENGINEERING AND MANAGEMENT GOURAHARI VIHAR, PO: RANIPUT, JEYPORE – 764 005

## **LESSON PLAN**

Name of the Subject: Estimating & Cost Evaluation- II

Name of the Faculty: Nandi Ghosh Behera

Semester: Fifth Semester Branch: Civil Engineering

Semester From: July to December No. of Weeks: 15 Weeks

Week	Class Day	Theory/ Practical Topics
1 <sup>st</sup>	1 <sup>st</sup>	Detailed estimate of culverts and bridges
		1.1 Detailed estimate of a simple Hume pipe culvert with
		right angled wing walls
	2 <sup>nd</sup>	problem
	$3^{\rm rd}$	problem
	$4^{ ext{th}}$	problem
2 <sup>nd</sup>	1 <sup>st</sup>	problem
	$2^{\text{nd}}$	1.2 RCC deck slab culvert with right angled wing wall
	3 <sup>rd</sup>	problem
	$4^{ m th}$	problem
	1 <sup>st</sup>	problem
	2 <sup>nd</sup>	problem
3 <sup>rd</sup>	3 <sup>rd</sup>	1.3RCC deck slab culvert with splayed wing wall
	4 <sup>th</sup>	problem
	1 <sup>st</sup>	problem
_	$2^{\text{nd}}$	problem
$4^{th}$	3 <sup>rd</sup>	problem
	4 <sup>th</sup>	1.4Quantity of steel for deck slab with bar bending schedule of the above jobs
_	$1^{st}$	problem
5 <sup>th</sup>	$2^{\text{nd}}$	problem
	3 <sup>rd</sup>	problem
	4 <sup>th</sup>	problem
6 <sup>th</sup>	1 <sup>st</sup>	2.Estimate of irrigation structures
	1	2.1 Detailed estimate of simple type of vertical fall to given specification
	2 <sup>nd</sup>	problem
	3 <sup>rd</sup>	problem
	4 <sup>th</sup>	problem
7 <sup>th</sup>	$1^{st}$	problem
	$2^{\text{nd}}$	problem
	$3^{\rm rd}$	2.3Detailed estimate of siphon well drop to given specification.
	$4^{ m th}$	problem
8 <sup>th</sup>	1 <sup>st</sup>	problem
ľ	2 <sup>nd</sup>	problem
	$3^{\rm rd}$	problem
	$\frac{3}{4^{ ext{th}}}$	problem
	<u> </u>	1.8

9 <sup>th</sup>	1 st	3. Detailed estimate of roads
9	1	3.1 Detailed estimate of roads 3.1 Detail estimate of a water bound macadam road
th	2 <sup>nd</sup>	
	$\frac{2}{3^{\text{rd}}}$	problem problem
	$\frac{3}{4^{\text{th}}}$	1
		problem
10 <sup>th</sup>	1 <sup>st</sup>	problem
	2 <sup>nd</sup>	problem
	3 <sup>rd</sup>	3.2 Detailed estimate of a National Highway in cutting / filling
	$4^{th}$	problem
11 <sup>th</sup>	1 <sup>st</sup>	problem
	$2^{\text{nd}}$	problem
	3 <sup>rd</sup>	problem
	$4^{\text{th}}$	problem
12 <sup>th</sup>	1 <sup>st</sup>	PWD accounts works
		4.1 Works
		1.1 Classification of work-original, major, petty, repair work, annual repair,
		special repair, quadrantal repair
	$2^{\text{nd}}$	Method of execution of works through the contractors, departmentally,
		contract and agreement, work order, item rate contract, lump sum contract,
		labour contract and daily labour, piece work agreement, scheduled contract,
_	- rd	cost plus percentage contract
	3 <sup>rd</sup>	Accounts of works 4.2.1 Explanation of various terms Administrative
		approval, technical sanction, contingency budget, tender, preparation of
		notice inviting tender, receiving of quotations, earnest money, security
<u> </u>	.th	deposit, advance payment, on account payment, intermediate payment
	$4^{\rm th}$	Final payment, running bill, final, regular and temporary establishment, cash,
		major & subhead of account, temporary advance, issue rate, storage,
		supervision charges, suspense account, debit, credit, book transfer, voucher
, ath	, ct	and related accounts
13 <sup>th</sup>	1 <sup>st</sup>	4.2.2 Measurement book use & maintenance, procedure of marking entries of
		measurement of work and supply of materials, labour employed, standard
	• nd	measurement books and common irregularity
	2 <sup>nd</sup>	4.2.3 Master roll: Its preparation & use for making payment of pay &
	3 <sup>rd</sup>	wages 4.2.4 Acquitance Roll: Its preparation & use for making payment of pay &
	3	
	4 <sup>th</sup>	wages 4.2.5 Labour & labour report, method of labour payment,
	4	
		use of forms and necessity of submission
14 <sup>th</sup>	1 <sup>st</sup>	4.2.6 Classification of stores, receipt / issue statement on standard form,
		method of preparation of stock account
	$2^{\text{nd}}$	Preparation and submission of returns, verification of stocks, shortage and
		excess
	$3^{\rm rd}$	Doubt clearing classes
	4 <sup>th</sup>	Previous year question answer discussion
15 <sup>th</sup>	1 st	REVISION
1.5	1	101011