

LESSON PLAN (QS&V)

Name of faculty SUDIP BANERJEE
 Discipline Civil engineering
 Semester 6th
 Subject QS&V

Week	Theory	
	Lecture Day	Topic
1st	1st	Introduction
	2nd	Introduction to quantity surveying and its importance. Duties of quantity surveyor
	3rd	Types of estimates-Preliminary estimates
	4th	Numerical problems
	5th	Detailed estimates
2nd	1st	Units of measurement for various items of work as per BIS:1200
	2nd	Rules for measurements
	3rd	Different methods of taking out quantities – centre line method and long wall method
	4th	Numerical problems
	5th	Numerical problems
3rd	1st	long wall and short wall method
	2nd	Numerical problems
4th	1st	Numerical problems
	2nd	REVISION/DISCUSSION
	3rd	Preparation of Detailed and Abstract Estimates from Drawings for: A small residential building
	4th	Earthwork for unlined channel
5th	1st	WBM road and pre-mix carpeting
	2nd	Numerical problems
	3rd	Numerical problems
	4th	Single span RCC slab culvert
	5th	Earthwork for plain and hill roads
6th	1st	RCC work in beams, slab, column and lintel, foundations
	2nd	users septic tank - 10 users, 50 users
	3rd	Calculation of quantities of materials for Cement mortars of different proportion
	4th	Cement mortars of different proportion
7th	1st	Brick/stone masonry in cement mortar
	2nd	Plastering and pointing
	3rd	Numerical problems
	4th	REVISION/DISCUSSION
	5th	White washing, painting
8th	1st	R.C.C. work in slab, beams
	2nd	Numerical problems
	3rd	Steps involved in the analysis of rates. Requirement of material, labour
	4th	sundries, contractor's profit and overheads Analysis of rates for finished items when data
9th	1st	regarding labour, rates of material and labour is given
	2nd	Numerical problems
	3rd	Numerical problems
	4th	REVISION/DISCUSSION
	5th	Running and maintenance cost of construction equipment
10th	1st	Meaning of contract Qualities of a good contractor and their qualifications
	2nd	Essentials of a contract Types of contracts, their advantages, dis-advantages and suitability
	3rd	system of payment Single and two cover-bidstender,tender forms and documents,tender notice
	4th	submission of tender and deposit of earnest money, security deposit, retention money,
	5th	maintenance period Classification and types of contracting firms/construction companies
11th	1st	Introduction to CSR and calculation of cost based on premium on CSR
	2nd	Exercises on writing detailed specifications of different types of building work
	3rd	Exercises on preparing tender documents for Earth work RCC works
	4th	Pointing, plastering and flooring White-washing, distempering and painting
12th	1st	Wood work including polishing Sanitary and water supply installations False ceiling
	2nd	False ceiling, Construction of W.B.M/Concrete road
	3rd	Exercises on preparation of comparative statements for item rate contract
	4th	Purpose of valuation, principles of valuation
13th	1st	Definition of various terms related to valuation like depreciation, sinking fund, salvage etc
	2nd	Methods of valuation (i) replacement cost method (ii) rental return method
	3rd	numerical problems on short wall method
	4th	do
	5th	REVISION/DISCUSSION
14th	1st	VISIT TO PWD(B&R) SUBDIVISION LOHARU TO SEE ALL ABOVE WORKING SYSTEM IN DEPTT,
	2nd	VISIT TO PWD(B&R) SUBDIVISION LOHARU TO SEE ALL ABOVE WORKING SYSTEM IN DEPTT,
	3rd	VISIT TO PWD(B&R) SUBDIVISION LOHARU TO SEE ALL ABOVE WORKING SYSTEM IN DEPTT,
	4th	revision of chapter 1
	5th	chapter 2
15th	1st	do
	2nd	chapter 3
	3rd	chapter 4
	4th	chapter 5
	5th	chapter 6