

Session: 2020-2021

Course: B.Tech.

Department: Civil Engineering

Semester: 7TH

Subject: Estimation & Costing, CE-405-F

Faculty name: Mr. Ankit Sharma

LECTURE PLAN

WEEK	LECTURE	TOPIC
1 st	1 st	Principle of estimation ,units ,item work ,different kinds of estimates
	2 nd	different methods of estimation ,estimation of materials in single room building
2 nd	1 st	two room building , multi storey buildings,
	2 nd	with different sections of walls
3 rd	1 st	foundation ,floors and roofs ,R.B and R.C.C works
	2 nd	Plastering ,white washing ,Distempering and painting
4 th	1 st	doors and windows ,lump sum items
	2 nd	Estimates of canals , dams ,barrages, Hilly roads etc.
5 th	1 st	Necessity of specification types of specification, general specification
	2 nd	specification of bricks ,cement ,sand ,water, lime, reinforcement
6 th	1 st	detailed specification for earthwork, cement, concrete ,brickwork
	2 nd	flooring ,D.P.C,R.C.C ,cement plastering
7 th	1 st	flooring ,D.P.C,R.C.C ,cement plastering
	2 nd	Purpose, importance and requirements of rate analysis
8 th	1 st	units of measurement preparation of rate analysis
	2 nd	procedure of rate analysis for items: Earth work
9 th	1 st	procedure of rate analysis for items: concrete works
	2 nd	procedure of rate analysis for items: R.C.C works
10 th	1 st	procedure of rate analysis for items: reinforce brick work
	2 nd	procedure of rate analysis for items: plastering ,painting

11th	1st	procedure of rate analysis for items: finishing (white washing ,distempering)
	2nd	Tender and acceptance of tender ,Ernst money
12th	1st	security money ,retention money
	2nd	measurement book ,cash book
13th	1st	preparation ,examination and payment of bills
	2nd	first and final bills ,administrative sanction ,technical sanction
14th	1st	Billing – maintenance of muster ROLL, preparation of pay bill
	2nd	measurement of work for payment of contractors, different types of payment –first & final ,running advance and final payment
15th	1st	Valuation Purpose of valuation, principles of valuation depreciation ,sinking fund
	2nd	Salvage & scrap value, valuation of a building –cost method, rental –return method.