

BKN POLYTECHNIC NARNAUL

Lesson Plan

Name of Faculty : MR AMIT GUPTA

Discipline : Civil

Semester : 6th Semester

Subject : QUANTITY SURVEYING

Lesson Plan Duration: 15 Weeks (From 9 Jan 2019 to 30 April 2019)

****Work load (Lecture / Practical) per week (in hours): Lectures-5, Practicals -00**

Week	Theory	
	Lecture Day	Topic (including assignment/test)
1 st	1	Introduction to quantity surveying and its importance.
	2	Duties of quantity surveyor
	3	Types of estimates ,Preliminary estimates
	4	Plinth area estimate
	5	Cubic content estimate
2 nd	1	Definition Detailed estimates
	2	Stages of preparation
	3	details of measurement
	4	calculation of quantities and abstract
	5	calculation of quantities and abstract
3 rd	1	Measurement
	2	Units of measurement for various items of work as per BIS:1200
	3	Units of measurement for various items of work as per BIS:1200
	4	Units of measurement for various items of work as per BIS:1200
	5	Rules for measurements
4 th	1	Different methods of taking out quantities – centre line method
	2	Different methods of taking out quantities – centre line method
	3	Different methods of taking out quantities- long wall and short wall method
	4	Different methods of taking out quantities- long wall and short wall method
	5	Revision
5 th	1	SESSIONAL TEST-1

	2	Preparation of Detailed and Abstract Estimates from Drawings by following CSR rates
	3	Preparation of Detailed and Abstract Estimates from Drawings by following CSR rates
	4	A small residential building with a flat roof comprising of two rooms with W.C., bath, kitchen and verandah
	5	A small residential building with a flat roof comprising of Two rooms with W.C., bath, kitchen and verandah
6th	1	A small residential building with a flat roof comprising of Two rooms with W.C., bath, kitchen and verandah
	2	Earthwork for unlined channel
	3	WBM road and pre-mix carpeting Single span RCC slab culvert
	4	Earthwork for plain and hill roads
	5	RCC work in beams, slab
7th	1	RCC work in column
	2	RCC work in lintel, foundations
	3	septic tank
	4	Calculation of quantities of materials Cement mortars of different proportion
	5	Cement concrete of different proportion Brick/stone masonry in cement mortar of different proportion
8th	1	Plastering, pointing and painting
	2	D.P.C. and flooring Analysis of Rates Steps involved in the analysis of rates. Requirement of material, labour, sundries, contractor's profit and overheads
	3	Earthwork in excavation in hard/ordinary soil and filling with a concept of lead and lift RCC in roof slab/beam/lintels/columns
	4	Brick masonry in cement mortar Cement Plaster White washing, painting
	5	SESSIONAL TEST-2
9th	1	Meaning of contract Essentials of a contract
	2	Types of contracts, their advantages, dis-advantages and suitability, system of payment

	3	Single and two cover-bids; tender
	4	forms and documents, tender notice
	5	submission of tender and deposit of earnest money,
10th	1	security deposit, retention money, maintenance period
	2	Classification and types of contracting firms/construction companies
	3	Preparation of Tender Document based on Common Schedule Rates (CSR)
	4	Preparation of Tender Document based on Common Schedule Rates (CSR)
	5	Introduction to CSR and calculation of cost based on premium on CSR
11th	1	Exercises on writing detailed specifications of different types of building works from excavation to foundations
	2	Exercises on writing detailed specifications of different types of building works from excavation to foundations
	3	superstructure and finishing operation
	4	Exercises on preparing tender documents Earth work
	5	Exercises on preparing tender documents Construction of a small house as per given drawing RCC works
12th	1	Exercises on preparing tender documents Pointing, plastering and flooring
	2	Exercises on preparing tender documents Pointing, plastering and flooring
	3	Exercises on preparing tender documents White-washing, distempering and painting
	4	Exercises on preparing tender documents White-washing, distempering and painting
	5	Wood work including polishing

13th	1	Sanitary and water supply installations
	2	false ceiling, aluminum (glazed) partitioning
	3	Tile flooring including base course
	4	Preparation of comparative statement for item rate contract.
	5	Revision

14th	1	Valuation
	2	Purpose of valuation, principles of valuation
	3	Definition of various terms related to valuation like depreciation
	4	sinking fund, salvage and scrap value
	5	market value, fair rent, year's purchase
15th	1	Methods of valuation - replacement cost method
	2	rental return method
	3	ASSIGNMENT
	4	REVISION
	5	SESSIONAL TEST-3

