

## **Session Plan**

**Subject Name: Quantity surveying and costing-II**

**Subject Code: 602**

**Name of Faculty: Mr. Kishor soni**

## **Course Outcomes**

**Subject Name: Quantity surveying and costing-II**

**Subject Code: 602**

After completion of this course the student will be able to:

CO 602.1 : Understand the basic concepts of estimating of any type of structure like slab,beam,column,steel structure or any building.

CO 602.2 : Use of different schedule of rates like PWD, CPWD, DSR, RES, HOUSING BOARD, IRRIGATION AND PHE.

CO 602.3 : Prepare Rate analysis of building work and estimating-Brick work, p.c.c, R.c.c, plastering, flooring, doors, windows.

CO 602.4 : take out quantities of steel work for given shed supported on steel trusses and having GI sheet and estimate of water supply and sanitary fittings .

CO 602.5 : Valuate and fixation of rent with the help of valuation methods.

### **Unit I: Introduction to Surveying**

<b>S.No</b>	<b>Topic Name</b>	<b>CO Attempted</b>	<b>Resources Used</b>	<b>Mode of Teaching</b>	<b>Expected Date</b>	<b>Actual Date</b>	<b>Remark</b>
<b>1</b>	Estimate of slab	<b>CO 601.1</b>	Chalk and Board	Lecture Method	22/01/18 23/01/18 24/01/18		
<b>2</b>	Estimate column	<b>CO 601.1</b>	Chalk and Board	Lecture Method	25/01/18 27/01/18 29/01/18		
<b>3</b>	Estimate of column with its footing	<b>CO 601.1</b>	Chalk and Board	Lecture Method	30/01/18 31/01/18		
<b>4</b>	Preparation of Abstract of slab ,column ,footing	<b>CO 601.1</b>	Chalk and Board	Lecture Method	01/02/18 02/02/18 03/02/18		
<b>5</b>	Preparation of Bar bending schedule	<b>CO 601.1</b>	Chalk and Board	Lecture Method	05/02/18 06/02/18 07/02/18		
<b>6</b>	Calculate amount of steel	<b>CO 601.1</b>	Chalk and Board	Lecture Method	08/02/18 09/02/18 10/02/18		
<b>7</b>	Estimate of RCC staircase	<b>CO 601.1</b>	Chalk and Board	Lecture Method	12/02/18 13/02/18 15/02/18		
<b>8</b>	Unit test	<b>CO 601.1</b>	Pen and paper	Written and quiz	16/02/18 17/02/18		

Expected Study Hours: 20 hrs

Actual Study Hours:

Reason for Delay

**Signature of Faculty**

**Signature of HOD**

## **Unit II: Estimate of steel / timber structure**

<b>S.No</b>	<b>Topic Name</b>	<b>CO Attempted</b>	<b>Resources Used</b>	<b>Mode of Teaching</b>	<b>Expected Date</b>	<b>Actual Date</b>	<b>Remark</b>
<b>1</b>	Estimate of steel column(stanchion)	<b>CO 601.1</b>	Chalk and Board	Lecture Method	19/02/18 20/02/18 21/02/18		
<b>2</b>	Estimate of steel truss and gusset plate	<b>CO 601.1</b>	Chalk and Board	Lecture Method	22/02/18 23/02/18 24/02/18		
<b>3</b>	Estimate of roof covering material G.I.,A.C. Roof	<b>CO 601.1</b>	Chalk and Board	Lecture Method	26/02/18 27/02/18 28/02/18		
<b>4</b>	Estimate of steel frames for doors and windows	<b>CO 601.1</b>	Chalk and Board	Lecture Method	01/03/18 05/03/18 06/03/18		
<b>5</b>	Estimate of wooden doors	<b>CO 601.1</b>	Chalk and Board	Lecture Method	07/03/18 08/03/18 09/03/18		
<b>6</b>	Estimate of wooden windows	<b>CO 601.1</b>	Chalk and Board	Lecture Method	10/03/18 12/03/18 13/03/18		
<b>7</b>	Unit test	<b>CO 601.1</b>	Pen and paper	Written and quiz	14/02/18 15/03/18		

Expected Study Hours:20 hours

Actual Study Hours:

Reason for Delay

**Signature of Faculty**

**Signature of HOD**

### **Unit III: Estimate of culverts and bridges**

<b>S.No</b>	<b>Topic Name</b>	<b>CO Attempted</b>	<b>Resources Used</b>	<b>Mode of Teaching</b>	<b>Expected Date</b>	<b>Actual Date</b>	<b>Remark</b>
<b>1</b>	Estimate of Hume pipe culverts with splayed type of wing wall	CO 601.3	Chalk and Board,drawing	Lecture Method	16/03/18 17/03/18		
<b>2</b>	Estimate of turn waa,face wall	CO 601.3	Chalk and Board,drawing	Lecture Method	20/03/18 21/03/18 22/03/18		
<b>3</b>	Estimate of rcc slab bridge	CO 601.3	Chalk and Board,	Lecture Method	23/03/18 24/03/18 26/03/18		
<b>4</b>	Estimate of straight type wing wall	CO 601.3	Chalk and Board	Lecture Method	27/03/18 28/03/18 31/03/18		
<b>5</b>	Revision	CO 601.3	-	Discussion	02/04/18		
<b>6</b>	Unit Test	CO 601.3	Pen and paper	Written and quiz	03/04/18		

Expected Study Hours: 18 hrs

Actual Study Hours:

Reason for Delay

**Signature of Faculty**

**Signature of HOD**

### **Unit IV: Estimating of Water supply and sanitary fittings**

<b>S.No</b>	<b>Topic Name</b>	<b>CO Attempted</b>	<b>Resources Used</b>	<b>Mode of Teaching</b>	<b>Expected Date</b>	<b>Actual Date</b>	<b>Remark</b>
<b>1</b>	Detailed estimate of water supply for building work	CO 601.4	Chalk and Board, drawing	Lecture & Demo	04/04/18 05/04/18 06/04/18		
<b>2</b>	Detailed estimate of sanitary works for building works	CO 601.4	Chalk and Board, drawing	Lecture & Demo	07/04/18 09/04/18 10/04/18 11/04/18		
<b>3</b>	Estimate of septic tank	CO 601.4	Chalk and Board, drawing	Discussion	12/04/18 13/04/18		
<b>4</b>	Unit Test	CO 601.4	Pen and paper	Written and quiz	16/04/18		

Expected Study Hours: 12 hrs

Actual Study Hours:

Reason for Delay

**Signature of Faculty**

**Signature of HOD**

### **Unit V: Valuation and rent fixation**

<b>S.No</b>	<b>Topic Name</b>	<b>CO Attempted</b>	<b>Resources Used</b>	<b>Mode of Teaching</b>	<b>Expected Date</b>	<b>Actual Date</b>	<b>Remark</b>
<b>1</b>	Definition,Necessity of valuation	<b>CO 602.5</b>	Chalk and Board	Lecture Method	17/04/18 18/04/18		
<b>2</b>	Cost price value	<b>CO 602.5</b>	Chalk and Board	Lecture Method	19/04/18 20/04/18		
<b>3</b>	Types of value(book value,scrap value,salvage value,market value)	<b>CO 602.5</b>	Chalk and Board	Lecture Method	21/04/18 23/04/18		
<b>4</b>	Depreciation,obsolescence	<b>CO 602.5</b>	Chalk and Board	Lecture Method	24/04/18		
<b>5</b>	Method of calculation of depreciation(straight line method,sinking fund method,constant percentage method)	<b>CO 602.5</b>	Chalk and Board	Lecture Method	25/04/18 06/04/18		
<b>6</b>	Gross income,computation of capitalized	<b>CO 602.5</b>	Chalk and Board	Lecture Method	26/04/18		
<b>7</b>	Valuation of lands and building,factors affecting their valuation	<b>CO 602.5</b>	Chalk and Board	Lecture Method	27/04/18		
<b>8</b>	Unit Test	<b>CO 602.5</b>	Pen and paper	Written and quiz	28/04/18		

Expected Study Hours: 20 hrs

Actual Study Hours:

Reason for Delay

**Signature of Faculty**

**Signature of HOD**

## Practical Plan

S.No	Name of Practical	CO Attempted	Resources Used	Mode of Teaching	Expected Date	Actual Date	Remark
1	Use of different schedule of rates like pwd, CPWD, DSR, RES, HOUSING BOARD	CO 601.1	PRINTED S.O.R.	Practical	5/03/18 5/03/18 5/03/18		
2	Taking out quantities of steel work for given shed supported on steel trusses and having GI sheet	CO 601.1	EXISTING STEEL STRUCTURE	Practical	6/03/18		
3	Prepare Rate analysis of building work-Brick work, p.c.c, R.c.c, plastering, flooring, doors, windows	CO 601.1	EXISTING STRUCTURE	Practical	12/03/18		
4	Taking out quantities of work for pipe culverts (drawing shall be provided for the above exercise by faculty)	CO 601.2	DRAWING	Practical	13/03/18		
5	Estimate and abstract and rate analysis with the help of different software						
6							

**Signature of Faculty**

**Signature of HOD**