DIPLOMA IN CIVIL ENGG
V - SEMESTER
QUANTITY SURVEY & VALUATION-I
(BCE-504)

<table>
<thead>
<tr>
<th>Pds./Week</th>
<th>Duration of Exam.</th>
<th>Max. Marks</th>
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<tr>
<td>L P Hours</td>
<td>Course Work</td>
<td>Mid-Sem Exam</td>
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**CONTENTS**

**Unit-I**

**Introduction:** Definition, Importance. Duties of quantity surveyor.  
**Types of estimates:** Preliminary estimates, Plinth area estimate, Cubic rate estimate, Estimate per unit base.  
**Detailed estimates:** Definition, Stages of preparation.  
**Measurement:** Units of measurement for various items of work as per BIS: 1200, Rules For measurements.  

**Unit-II & III**

**Calculation of quantities of items from Drawings:**

Methods of calculation of quantities of items:  
1. Long wall and short wall method  
2. Centre line method  
**Details of measurements & calculation of quantities of various items of work for:**

1. A small residential building with continuous wall footings  
2. RCC work in beams, slabs, columns and lintels (including bar bending schedule)  
3. A small RCC framed building  
4. A steel roof truss  
5. A septic tank with a soak pit  
6. A single span RCC slab culvert  
7. WBM road  
8. RCC/CC road  
9. Arches

**Unit-IV**

**Analysis of Rates:**


**Unit-V**

Material statements for the above solved problems.

Reference Books:-

8. BIS: 1200