

Course Title	Construction Documentation and Estimating			Course Code	BST 31291		
Year	3	Semester	1	Credits	01	Theory (hr)	15
						Practical (hr)	00
						Independent Learning (hr)	

**Aim of the Course:**

To provide the knowledge and skills on construction documentation and estimating

**Intended Learning Outcomes:**

*After completion of this course, the learner should be able to:*

- Record the dimensions and descriptions of construction work methodically and process those into final quantities.
- Calculate all-in costs of materials, labor and plant, together with unit rates, for a given construction work.
- Derive the quantities and costs to determine the value of a given building project at different pre-contract development design stages.
- Prepare a BOQ with the estimates reflecting standard rates and minimum contingencies.

**Course Capsule:**

Theory
Types and interpretation of construction documents, plans, specifications and schedules of materials and considerations of document control; Introduction to construction estimating, including the types of estimates, their uses, quantity take-offs, costs of work, overhead, submitting the bid, application of spreadsheets for basic estimating; Computer assisted estimation for Sri Lankan construction industry; Process of estimation: introduction to estimating process, types of estimates, preconstruction services, risk analysis and contingencies; Quantity surveys; basic concepts, site, concrete, masonry, steel: Estimating Software; Unit costs; materials, labor, equipment; overhead and mark up, market conditions, pricing database; Conceptual estimates, design development estimates, construction document estimates

**Assessment:**

Continuous assessment: 30%  
 End semester assessment: 70%