

## QUANTITY SURVEYING / CONSTRUCTION ESTIMATOR SYLLABUS - MECHANICAL

<b>202</b>	<b>Measurement of Mechanical Work II</b>	April 18, 2001
Course No.	Descriptive Title	Revision: 2
		February, 2003

### Course Description

This course is an extension of previous studies and includes the measurement and description of mechanical work covered in Mechanical Technologies I and II.

<b>Suggested Prerequisites:</b>	.....	101	Construction Science
	.....	102	Mechanical Technology I
	.....	201	Mechanical Technology II

### Learning Outcomes

Upon completion the student will be able to demonstrate an increased understanding of the measurement of mechanical systems.

### Course Content:

The student will study the following:

1. from the text Estimating Construction Costs
  - a. Chapter 17 Plumbing
  - b. Chapter 20 Water Distribution Systems
  - c. Chapter 21 Sewage Systems
2. from the text Means Plumbing Estimating
  - b. Chapter 3 Preparing for the estimate
  - c. Chapter 4 The Take-off
3. From the text Means Mechanical Estimating Standards and Procedures, Chapter 22
4. From the text Method of Measurement of Construction Works, Division 15.

### Required Textbooks and Materials:

1. Estimating Construction Costs, by Peurifoy-Oberlender
2. Means Mechanical Estimating Standards and Procedures, by Moylan/Mossman
3. Means Plumbing Estimating, by Galeno and Greene
4. Method of Measurement of Construction Works, published by The Canadian Institute of Quantity Surveyors.

### Testing:

Testing will include elements studied in the course as well as 101, 102, and 201. Emphasis will be placed on:

1. a demonstrated understanding of the methods and procedures
2. accuracy in descriptions
3. accuracy of measurement and extension.