

**QUANTITY SURVEYING / CONSTRUCTION ESTIMATOR SYLLABUS - MECHANICAL**

<b>208</b>	<b>Mechanical Technology III</b>	April 18, 2001	
Course No.	Descriptive Title	Revision: 2	February, 2003

**Course Description**

This course deals with the problems encountered in the construction of large or multi-storeyed buildings of a complex nature or where specialized typed of mechanical systems are called for. Included is a minor study of systems found in hospitals.

**Suggested Prerequisites:** ..... 102 Mechanical Technology I  
..... 104 Plumbing & Fire Protection Design  
..... 109 Heating, Ventilation and Air  
Conditioning Design

**Learning Outcomes**

- The student will be able to demonstrate an understanding of:
1. the components of complex mechanical systems including plumbing, heating, ventilation, air conditioning and fire protection
  2. the fundamentals of specialized piping systems
  3. the relationship of the various components.

**Course Content:**

- The student will study the following:
1. from the text Mechanical and Electrical Systems for Buildings
    - a. Chapter 6 Systems and Equipment for Heating and Cooling
    - b. Chapter 10 Water and Waste
    - c. Chapter 11 Bathroom Design
    - d. Chapter 13 Fire Protection
  2. from the text Means Plumbing Estimating
    - b. Chapter 2 Plumbing Subsystems and Components.

**Required Textbooks and Materials:**

1. Mechanical and Electrical Systems for Buildings, by Stein/Reynolds/McGuinness
2. Means Plumbing Estimating, by Moylan/Mossman.

**Testing:**

Emphasis in testing will be based on the student’s ability to explain and apply the materials studied.