AMBO UNIVERSITY WELLISO CAMPUS

Department of construction technology and management

Course Outline

Academic year 2012 3Cr.Hr (5ects)

Course code: CoTM 3212 Instructor: Mihret A.

COURSE NAME: **Cost Engineering**

Course Outline

1. Principles of Cost Engineering

1.1 Introduction

1.2 Definitions and Terminology to Cost Engineers

1.3 Cost Engineering Traits

1.4 The Function of Cost Engineering in Construction

1.5 Considerations in Costing

2. Tender and pre-tender cost estimating:

2.1 price forecasting

2.2 Price indices

2.3 Construction price analysis and synthesis of unit rates for construction trade

2.4 Risk-return assessment.

2.5 cost norms

2.6 Fixed and variable construction costs

3. Quality and value engineering:  
 3.1 concepts of quality measures

3.2 cost benefit analysis

3.3 cash flow models

3.4 network models Use of computer software for cost engineering.

Assessment/Evaluation & 30% project work, 10% assignment, 10% quiz, 10% test  
 Grading System and 40% final exam

Literature R. Creese, M. Adithan, and B. Pablo, “*Estimating and Costing for*  
 *the Metal and Manufacturing Industries”* 1992 Marcel Dekker

(There is no specific text or reference found but students may try to  
 collect references from different books wherever possible)