



BULE HORA UNIVERSITY

COLLEGE OF ENGINEERING AND TECHNOLOGY

DEPARTMENT OF CONSTRUCTION TECHNOLOGY AND MANAGEMENT

SPECIFICATION AND QUANTITY SURVEY (CoTM 3211)

COURSE OUTLINE

Course Number	COTM 3211				
Course Title	Specification and Quantity Surveying				
Target group	3 rd year (B.Sc. in Construction Technology & Management)				
Module No. & Name	21-Estimating and costing				
Lecturer	Yehulum B. (MSc) & Solomon T.				
Cr. Hrs	3				
ECTS Credits	5				
Semester	II				
Status of Course	Core				
Pre-requisites	CoTM 2071 (Building construction I)				
Contact Hrs per week	Lecture	Tutorial & Seminars	Lab. & workshop practice	Home Study	Total contact Hrs.
	2	4	-	3	9
Course Objectives	✚ Understand different types of specification, know how to assure and control quality of construction materials and construction products. ✚ Prepare specifications and BoQ for construction projects. ✚ Work out quantity and types of material, manpower, and equipments needed for construction projects. ✚ Determine rates for construction activities using detailed cost estimation. ✚ Advice stake holders on preliminary and final costs of projects.				
Course Contents	<u>CHAPTER ONE</u> 1. Specifications 1.1 Introduction 1.2 Purposes of Specifications 1.3 Types of Specifications 1.4 Specification Writing				
	<u>CHAPTER TWO</u> 2. Quantity Surveying 2.1 Measurements of Civil Works 2.1.1 Taking off 2.1.2 Preparing Specification & BoQ				
	<u>CHAPTER THREE</u> 3. Technical Specification and Method of Measurements for the Different trade of Works A. Substructure 1. Excavation and earthworks, 2. Concrete works 3. Masonry works				



	B. Superstructure 1. Concrete works 2. Masonry works 3. Roofing works 4. Carpentry and Joinery works 5. Metal works 6. Steel Structures 7. Finishing works 8. Glazing 9. Painting 10. Sanitary work 11. Electrical Installation C. Miscellaneous works <u>CHAPTER FOUR</u> 4. Cost Estimation 4.1. Quantity Determination 4.2. Rate analysis
Course Policy	✓ All students are expected to abide by the code of conduct of students and the Senate Legislation of the University throughout this course. ✓ Team work is highly encouraged, Academic dishonest including dependence and copying and submitting other's work is considered as serious act of cheating and shall be penalized. ✓ If you are having problems with the assignments or tests, contact the instructor as soon as possible. ✓ A student who misses more than 15% of the semester class is not eligible to sit for final exam. ✓ Punctuality is equally important. ✓ If you must bring a cell phone to class, make sure that it is absolutely silent and does not disturb any one. The teaching-learning process shall be disrupted by no means.
Teaching Methods	Lectures, Seminar, projects.
Assessment & Grading System	Test 20%, Quiz 10%, Project 20%, Participation 5%, Attendance 5% Final Exam 40%
Literatures	1. B.N. Dutta, "Estimating and costing in civil Engineering" 2. D.F. Turner, "Quantity surveying practice and Administration" 3. W.J. Hornung, "Estimating Building construction Quantity surveying" 4. BatCoDA, "Technical Specification and method of measurement for construction of buildings" 5. S.H. Bartholomew, "Estimating and bidding for heavy construction" 6. MoWUD, "Standard condition of contract for construction of civil works" 7. Handout

Checked and approved by Course distribution committee

Signature

Date

1. _____

2. _____

3. _____
