



TECHNICAL UNIVERSITY OF MOMBASA

SCHOOL OF ENGINEERING AND TECHNOLOGY
DEPARTMENT OF ARCHITECTURE & BUILT ENVIRONMENT

UNIVERSITY EXAMINATION FOR:
DEGREE IN BACHELOR OF ARCHITECTURE
EAR 4504: MEASUREMENTS & SPECIFICATIONS
END OF SEMESTER EXAMINATION

YEAR FIVE SEMESTER ONE

SERIES: MAY 2025

TIME: 2 HOURS

DATE: MAY, 2025

Instructions to Candidates

You should have the following for this examination

-Answer Booklet, examination pass and student ID

This paper consists of **FIVE** questions. Attempt question ONE (Compulsory) and any other TWO questions.

Do not write on the question paper.

QUESTION ONE

- (a) Explain two broad types of estimating approaches commonly used in the construction industry (10 marks)
- (b) Highlight your understanding of the term “Take-off list” and how the same is important in the mensuration process (10 marks)
- (c) Provide a take-off list for a gate house facility necessary before mensuration and billing is done (10 marks)

QUESTION TWO

Costing of projects is an integral process that requires a team effort. Discuss (20 marks)

QUESTION THREE

- (a) Highlight the distinction between the terms: general specifications and particular specifications (10 marks)
- (b) Explain why serialization of drawings issued for use in a given project at different stages of design and construction is important, giving examples where necessary (10 marks)

QUESTION FOUR

- (a) Discuss the importance of Preliminaries Section of the Bills of Quantities in projects documentation. (10 marks)
- (b) Discuss the need for drawings as part of the list of priority documents necessary in a contractual process (10 marks)

QUESTION FIVE

Preliminary site investigations play a critical role in projects success. Discuss this statement giving examples where necessary (20 marks)