



TECHNICAL UNIVERSITY OF MOMBASA

SCHOOL OF ENGINEERING AND TECHNOLOGY

DEPARTMENT OF ELECTRICAL AND ELECTRONIC ENGINEERING

UNIVERSITY EXAMINATION FOR:

BACHELOR OF TECHNOLOGY IN ELECTRICAL AND ELECTRONIC ENGINEERING

BFI4450/TEE4431: ENGINEERING SERVICES, CONTRACT AND LAW

SPECIAL/SUPPLEMENTARY EXAMINATION

SERIES: JULY 2025

TIME: 2 HOURS

DATE: April 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) Discuss the difference between Law and Morality (10 marks)
- b) Explain the importance of “takes off sheet” in the context of estimating from document materials in a electrical construction project. (10 marks).
- c) Explain a simple specification for the installation of LED lighting in an office upgrade project. (10 marks)

Question TWO

- a) Explain the features of Company Law (10 marks)
- b) Discuss the fundamental concepts of agency law (10 marks)

Question THREE

- a) Explain three methods of discharge of contract (termination of contractual obligations). (10 marks)
- b) Discuss how you use work measurement techniques to improve labor productivity on a site (10 marks).

Question FOUR

- a) Explain components of the "Instructions to Tenderers" in a tender document in the construction industry. (10 marks)
- b) Explain the three key components of a bar chart suitable for an electrical construction project including how the bar chart will help in work planning and control. (10 marks)

Question FIVE

- a) Discuss how a supplier would ensure their bid is competitive in a material supply tender in an electrical construction project. (10 marks)
- b) Discuss suitable methods to make site meetings more engaging and productive in an electrical construction project. (10 marks)