



(University of Choice)

**MASINDE MULIRO UNIVERSITY OF
SCIENCE AND TECHNOLOGY
(MMUST)**

MAIN CAMPUS

**UNIVERSITY MAIN EXAMINATIONS
2023/2024 ACADEMIC YEAR**

THIRD YEAR FIRST SEMESTER EXAMINATIONS

**FOR THE DEGREE
OF
BACHELOR OF TECHNOLOGY EDUCATION
IN CIVIL AND BUILDING TECHNOLOGY, ELECTRICAL AND
ELECTRONICS & MECHANICAL TECHNOLOGY**

**COURSE CODE: TEB 301
COURSE TITLE: METHODS OF TEACHING CIVIL ENGINEERING
TECHNOLOGY**

DATE: 13TH DECEMBER 2023

TIME: 3 P.M – 5 P.M

INSTRUCTIONS:

1. This paper contains THREE Questions
2. Attempt Question ONE and any other.
3. Marks for each question are indicated in the parenthesis.
4. It is in the best interest of the candidate to write legibly
5. Examination duration is 2 Hours

MMST observes ZERO tolerance to examination cheating

This Paper Consists of 4 Printed Pages. Please Turn Over.

Question 1 (30 marks): Compulsory

- (a) Demonstration method of teaching involves showing by; reason, proof, explaining, or making clear by use of experiments. Outline
- (i) any four principles in this teaching strategy? (4 marks)
 - (ii) Any three characteristics of this teaching style (3 marks)
 - (iii) Enumerate any four merits and demerits of demonstration teaching method. (8 marks)
- (b) Explain what you understand by 'Project Method' as a method of teaching practical work, stating the focus its teaching strategy, three advantages and three disadvantages. (9 marks)
- (c) Outline the six components of effective teaching (6 marks)

Question 2 (20 marks)

- (a) Outline Heuristic as a method of teaching technical work by;
- i) stating the teaching strategy (1 mark)
 - ii) its basic principles (1 mark)
 - iii) its advantages and disadvantages (4 marks)
 - iv) ii). State any four-point criteria to consider when choosing teaching aids (4 marks)
- (b) Suppose you are teaching your learners how to join bricks during walling, of a building by use of cement/motor. State the teaching method you would use for your learners to acquire the necessary skill. (1 mark)
- (c) State out any two objectives, as in your lesson plan, you would expect to achieve at the end of the walling exercise. (2 marks)
- (d) Make a labeled outline pattern of brick joining design for the walling of the house/building. (6 marks).
- (e) Mention the teaching method you would apply to your students to ensure effective learning of how to make the cement motor is well done - item in question (v) above. (1 mark)

Question 3 (20 marks)

- (a) What are teaching aids? (1 mark)
- (b) State four reasons for using teaching aids during your lesson. (4 marks)
- (c) Write a Comprehensive Demonstration Lesson Plan that contains two lesson objectives, you intend to use to teach a practical skill of your choice to a class of 20 students in a total time of 15 minutes, at your technical training institute. On the lesson plan, show all the lesson steps and indicate the time besides each step you intend to take up to the end of your lesson. (15 marks)