



# MACHAKOS UNIVERSITY

University Examinations for 2020/2021

SCHOOL OF ENGINEERING AND TECHNOLOGY

DEPARTMENT OF BUILDING AND CIVIL ENGINEERING

SECOND YEAR SECOND TERM EXAMINATION FOR

CERTIFICATE IN BUILDING TECHNOLOGY

1704 / 203 / CAD: COMPUTER AIDED DESIGN AND DRAUGHTING

DATE: 8/6/2021

TIME: 8:30 -10:30 AM

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## INSTRUCTIONS:

- *This paper consists of **TWO** questions.*
- *Answer **BOTH** questions.*
- *Maximum marks for each part of the question are as shown.*

Using the attached drawings and given specifications carry out the tasks given in the following questions:

All dimensions are in mm  
Pen width : 0.35mm black  
Grid spacing : 10mm  
Dimension lines : 0.13mm black  
Dimension text : Times New Roman  
Font size : 3.0mm  
Assume any other relevant information

1. Figure 01 shows a flower vase. To a scale of 1:1 and using CAD software, draw and annotate the figure. (10 marks)
2. Figure 02 shows a shaped block drawn in isometric projection.
  - i) To a scale of 1:2 and using CAD software, draw and annotate the figure. (25 marks)
  - ii) To a scale of 1:2 draw the three views of the block in first angle orthographic projection, taking the front view in the direction of the arrow. (15 marks)