



TECHNICAL UNIVERSITY OF MOMBASA

School of Humanities and Social Sciences

Department of Communication Studies

UNIVERSITY EXAMINATION FOR:

DIPLOMA IN GRAPHIC DESIGN

HGD 2206 : COMPUTER-AIDED DESIGN II

END OF SEMESTER EXAMINATION

SERIES: DECEMBER 2024

TIME: 2 HOURS

DATE: Pick Date Dec 2024

Instructions to Candidates

You should have the following for this examination

-Answer Booklet, examination pass and student ID

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

Do not write on the question paper.

Question ONE (30 Marks)

- a) Discuss the features and benefits of AutoCAD as a CAD software. (10 marks)
- b) Explain FIVE ways CAD software has transformed the design process in various industries. (10 marks)
- c) Describe THREE key differences between 2D and 3D CAD designs. (10 marks)

Question TWO (20 Marks)

- a) Explain the importance of file organization in CAD projects. (10 marks)
- b) Describe FIVE best practices for naming and saving CAD files. (5 marks)
- c) Discuss how version control is implemented in CAD file management and why it is critical. (5 marks)

Question THREE (20 Marks)

- a) Compare Adobe Photoshop and Adobe Illustrator, focusing on their capabilities in graphic design. (10 marks)
- b) Discuss THREE roles of graphic design software in creating effective marketing materials. (5 marks)
- c) Explain how software choice influences design outcomes and project efficiency. (5 marks)

Question FOUR (20 Marks)

- a) Describe the process of creating a simple 2D drawing in AutoCAD, outlining FIVE key steps. (10 marks)
- b) Explain how to apply layers effectively in CAD drawings and their advantages. (5 marks)
- c) Discuss the significance of dimensioning in CAD design, providing examples. (5 marks)

Question FIVE (20 Marks)

- a) Explain THREE ways CAD is used in architecture and engineering. (10 marks)
- b) Discuss how CAD software can be utilized for creating prototypes, giving TWO examples. (5 marks)
- c) Analyze future trends in CAD technology and their potential impact on design practices. (5 marks)