



TECHNICAL UNIVERSITY OF MOMBASA

School of Humanities and Social Sciences

Department of Communication Studies

UNIVERSITY EXAMINATION FOR:

DIPLOMA IN GRAPHIC DESIGN

HGD 2107 COMPUTER AIDED DESIGN

END OF SEMESTER EXAMINATION

SERIES: APRIL 2025

TIME: 2 HOURS

DATE: Pick Date APR 2025

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) Define the following terms as they relate to computer aided design:

I. CAD soft-ware

II. Vector Graphics

III. Workspace

IV. Layers

V. Rendering (10 marks)

b) Explain the importance of Computer-Aided Design in modern graphic design practices. (10 marks)

c) Outline the steps involved in creating and saving a 2D drawing in AutoCAD. (10 marks)

QUESTION TWO (20 Marks)

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a) Describe the basic CAD commands used for 2D drawing and their functions:

I. Line

II. Circle

III. Trim

IV. Offset

V. Hatch (10 marks)

b) Discuss the impact of mastering CAD commands on a designer's efficiency and creativity. (10 marks)

QUESTION THREE (20 Marks)

a) Explain the process of setting up and customizing a CAD workstation. Include hardware and software considerations. (10 marks)

b) Describe best practices for organizing and managing AutoCAD files for large design projects. (10 marks)

QUESTION FOUR (20 Marks)

a) Discuss the evolution of CAD software and how it has shaped the field of graphic design. (10 marks)

b) Explain the role of 2D CAD drawings in the design pipeline and their transition into 3D modeling and rendering. (10 marks)

QUESTION FIVE (20 Marks)

a) Examine common challenges learners face when starting with CAD software and suggest strategies to overcome them. (10 marks)

b) Illustrate the relationship between manual drafting and CAD, highlighting the advantages of digital design tools. (10 marks)