



THE MOMBASA POLYTECHNIC UNIVERSITY COLLEGE

(A Constituent College of Jkuat)

*Faculty of Engineering and Technology in Conjunction with Kenya
Institute of Highways and Building & Technology (KIHBT)*

DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING

HIGHER DIPLOMA IN TECHNOLOGY
ELECTRICAL ENGINEERING

ENGINEERING DRAWING & DESIGN I (AUTOCAD)

SEMESTER EXAMINATIONS

SERIES: AUGUST/SEPTEMBER 2011

TIME: 2 HOURS

Instructions to Candidates:

You should have the following for this examination

- *Answer booklet*
- *Computer with AUTOCAD installed*

Answer Question **ONE (COMPULSORY)** in **section A** and any other **ONE** question from **Section B** and **ONE** question in **section C**

This paper consists of **TWO** printed pages

SECTION A (compulsory)

Question 1

- a) State any **FIVE** advantages of drafting using AUTOCAD (5 marks)
- b) Describe the use of the following AUTOCAD commands
- (i) Spline
 - (ii) Move
 - (iii) Mirror
 - (iv) Linear
 - (v) Multiline text (5 marks)
- c) Describe any **THREE** features of AUTOCAD (6 marks)
- d) On which AUTOCAD toolbar would you find the following 3-D modeling commands
- i) 3-D orbit
 - ii) Cone
 - iii) Isometric view
 - iv) Subtract
 - v) Extrude (5 marks)
- e) State any **FOUR** object snap modes (3 marks)
- f) State any **FIVE** disadvantages of using AUTOCAD (5 marks)

SECTION B (Attempt any ONE question)

Question 2

Reproduce the Fig Q2 using AUTOCAD (20 marks)

Question 3

Reproduce the Fig Q3 using AUTOCAD (20 marks)

SECTION C (Attempt any ONE question)

Question 4

Reproduce the simple 3-D Fig Q4 model using AUTOCAD (20 marks)

Question 5

Reproduce the simple 3D-model Fig Q5 using AUTOCAD (20 marks)