



MURANG'A UNIVERSITY OF TECHNOLOGY

SCHOOL OF COMPUTING AND INFORMATION TECHNOLOGY

DEPARTMENT OF INFORMATION TECHNOLOGY

UNIVERSITY ORDINARY EXAMINATION

2020/2021 ACADEMIC YEAR

FIRST YEAR SECOND SEMESTER EXAMINATION FOR, BIT&BSE

UNIT CODE: SIT105

UNIT TITLE: COMPUTER AIDED DESIGN

DURATION: 2 HOURS

Instructions to candidates:

1. You are required to answer to all section of this project.
2. Mobile phones are not allowed in the examination room.
3. You are not allowed to write on this examination question paper.

SECTION A: ANSWER ALL QUESTIONS IN THIS SECTION

QUESTION ONE (COMPULSORY) (30 MARKS)

- i. Create a folder/directory on your device and name it with your registration number.
- ii. Create a text file in either notepad or word editor of your choice. add the following details in the text file:
 - a) Your registration number
 - b) School/faculty
 - c) Department
 - d) Program
 - e) Year of study
 - f) Nature of exam eg Ordinary, Resit, Supplementary
- iii. Save your project as Murang'a University logo
- iv. Save the text file as My personal details
- v. Remember to save your work occasionally in case of power interruption
- vi. You are required to answer to all section of this project.

Problem statement

You have been contracted by Murang'a University management to redesign their institutional logo. The sample of the logo is provided in a separate page. The design guidelines and instructions are as provided below:

- 1) Create a new page in CorelDraw and specify the page layout setting for the project. You may use any version of CorelDraw starting from x-3-32bit onwards.
(5marks)
 - a) Design the frame as indicated on sample.
 - b) Fill with contrasting colours
 - c) Let the outlines have different colour shade. (5marks)
- 2) Design the logo as presented on the sample
 - a) Give contrasting colour to each layer
 - b) Set the proportionality of layers
 - c) Group the objects that are ready.
 - d) Place in the relative position on the page as shown. (20marks)
- 3) Design the cogwheel using rotating bars and weld with the circle to illustrate proportionate teeth as in the sample.
 - a) Give them the contrasting colours in each layer
 - b) Place them in a relative position on the page
 - c) Group all the objects of the cogwheel (20marks)
- 4) Design the text on the logo as in the sample. If the exact font is not available on your system then use the closest match.
 - a) Place the text to run with the curve.
 - b) Set text proportionality skew

- c) Group and lock text. (10marks)
- 5) Assemble all the drawn objects and the imported objects to page.
 - a) Set proportionality
 - b) Group all
 - c) Fit the object to print area
 - d) Lock the object piece to location (10marks)
- 6) Create a bright background and place the logo with the colours and texture of your choice to blend with the object. (5marks)