



NATIONAL UNIVERSITY OF SCIENCE AND TECHNOLOGY
FACULTY OF SCIENCE AND TECHNOLOGY EDUCATION
DEPARTMENT OF ART, DESIGN AND TECHNOLOGY EDUCATION
PDT1127 DESIGN PROCESSES AND PROJECTS

Main Examination Paper

November 2024

This examination paper consists of 2 pages

Time Allowed: 3 hours
Total Marks: 100
Special requirements: None
Examiner's Name: Dr. F. Sebele

INSTRUCTIONS

1. Answer question **ONE** and any **THREE** questions.
2. All questions carry equal marks.
3. Begin each question on a fresh page and put all parts of the same question together.

MARK ALLOCATION

QUESTION	MARKS
1.	25
2.	25
3.	25
4.	25
5.	25
6.	25
TOTAL	100

QUESTION 1

African Craft Centre aims to launch a new line of contemporary traditional designs that blend cultural heritage with modern style. Develop a proposal considering the design thinking approach.

QUESTION 2

Examine the role of patent search in ensuring design originality avoiding infringement and referencing real-world examples.

QUESTION 3

A company intends to rapidly prototype a new consumer product. Discuss the benefits and limitations of using 3D printing for this launch.

QUESTION 4

The Arts Gallery of Zimbabwe commissions a public art installation celebrating local culture. Evaluate three idea generation techniques to create engaging artworks.

QUESTION 5

A company desires to create sustainable art products using recycled materials. Analyse the relevance of IDEO's Design Thinking Model to this project.