

# MANICALAND STATE UNIVERSITY OF APPLIED SCIENCES

FACULTY OF ENGINEERING

Department of Chemical and Processing Engineering

PROJECT MANAGEMENT

CODE: HCHE 512

SESSIONAL EXAMINATIONS

July 2021

DURATION: 3 HOURS

EXAMINER: Mr P. Nyamhute MSIZ, AIAZ

---

## **INSTRUCTIONS**

- 1. Answer any five questions from six questions given.*
  - 2. Each question carries 20 marks.*
  - 3. Total examination marks 100*
-

**QUESTION ONE- Introduction to a Project**

- a) Define any five characteristics of a project. (10)
- b) With aid of examples briefly explain any five causes of a project. (10)

[Total 20 marks]

**QUESTION TWO- Introduction to a Project**

As a Chemical Engineer at Manicaland State University of Applied Sciences you have been tasked to design a method of purifying grey water from two student residents flats each with a carrying capacity of 100 students.

Describe the stages of the project cycle and list the outputs from each stage.

[Total 20 Marks]

**QUESTION THREE – Introduction to Project Management**

Define Project Management (4)

Explain how project management controls the following aspects of a project,

- i) Scope (4)
- ii) Cost (4)
- iii) Time (4)
- iv) Quality (4)

[Total 20 Marks]

**QUESTION FOUR –Project Management Techniques**

- a) Describe the following techniques used in managing a project.
  - i) Work Breakdown Structure (5)
  - ii) Gantt Chart (5)
- b) Using a diagram develop a Work Breakdown Structure for your Final Year Project. (10)

[Total 20 Marks]

**QUESTION FIVE – Project Monitoring and Evaluation**

a) What is the difference between monitoring and evaluation?. (4)

b) List any four reasons why evaluation is carried out.(16)

[Total 20 Marks]

**QUESTION SIX – ICT in Project Management**

Information Communications and Technology (ICT) provides tools for project success .

Discuss with aid of examples. [Total 20 Marks]

END OF PAPER