**Thesis Outline**

# 1. Introduction

## a. Background

### - Briefly introduce the South African Cape sea urchin, Parechinus angulosus.

## b. Rationale for the Study

- Discuss the importance of exploring alternative seafood sources due to increasing demand and declining traditional fisheries.

- Highlight the potential of Parechinus angulosus as an unexploited resource.

## c. Research Questions and Objectives

- Clearly state the main research questions your study aims to answer.

- Enumerate specific objectives to achieve these goals.

# 2. Literature Review

## a. Overview of Seafood Industry Trends

- Examine current trends in the global seafood market.

- Discuss the challenges and opportunities faced by the seafood industry.

## b. Traditional Seafood Sources

- Provide an overview of commonly consumed seafood and their market status.

- Discuss the sustainability issues and concerns in traditional fisheries.

## c. Introduction to Sea Urchins

- Briefly introduce the biology and ecology of sea urchins.

- Explore the existing uses of sea urchins in different cultures and markets.

## d. Parechinus angulosus: Ecological and Biological Overview

- Present detailed information about the South African Cape sea urchin, including its habitat, life cycle, and nutritional content.

- Highlight any existing research on its potential use for human consumption.

## e. Potential of Parechinus angulosus for the Edible Market

- Summarize existing studies or observations regarding the taste, texture, and culinary potential of Parechinus angulosus.

- Discuss any unique nutritional benefits it might offer compared to traditional seafood.

## f. Challenges and Considerations

- Address potential challenges associated with harvesting, processing, and marketing Parechinus angulosus.

- Discuss any environmental or ethical considerations related to its exploitation.

## g. Regulatory Framework

- Examine existing regulations related to the harvesting and consumption of sea urchins, particularly Parechinus angulosus, in South Africa.