



NATIONAL UNIVERSITY OF SCIENCE AND TECHNOLOGY

**SSC5114**

FACULTY OF APPLIED SCIENCES

DEPARTMENT OF SPORTS SCIENCE AND COACHING

MASTER OF SCIENCE IN SPORTS SCIENCE

SSC5114: BIOMECHANICS OF HUMAN MOVEMENT

**EXAMINATION QUESTION PAPER**

**DECEMBER 2024**

This examination question paper consists of 2 pages

TIME ALLOWED: 3 HOURS  
TOTAL MARKS: 100  
SPECIAL REQUIREMENTS: NIL  
EXAMINER'S NAME: MR E M TAPERA

INSTRUCTIONS

- 1) Answer any 4 questions.
- 2) Each question carries 25 marks.
- 3) Where a question contains subdivisions, the mark value for each subdivision is given in brackets.

MARK ALLOCATION

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

1. Numerous technologies are used in Paralympic sports. Enumerate and discuss these technologies.  
(25 marks)
2. Using your knowledge of biomechanics, discuss principles of workplace ergonomics.  
(25 marks)
3. Describe a software that can be used for biomechanical analysis and explain how it works.  
(25 marks)
4. Discuss three major posture abnormalities and describe a method for evaluating posture.  
(25 marks)
5. With reference to your sport of interest, discuss performance analysis, indicating how it enhances sports performance in your sport.  
(25 marks)
6. Biomechanics finds application in a number of fields. Describe the application of biomechanics in five such fields.  
(25 marks)

**END OF EXAMINATION**