



NATIONAL UNIVERSITY OF SCIENCE AND TECHNOLOGY

FACULTY OF ENVIRONMENTAL SCIENCE

DEPARTMENT OF GEOSPATIAL SCIENCE

**BACHELOR OF SCIENCE (HONOURS) DEGREE IN GEOGRAPHICAL INFORMATION SYSTEMS (GIS) AND
REMOTE SENSING IN NATURAL RESOURCES MANAGEMENT**

LAND EVALUATION AND LAND USE PLANNING

EGR 2202

Regular Examination Paper

March 2025

This examination paper consists of 2 pages

Time Allowed: 3 hours

Total Marks: 100

Examiner's Name: Mr Nicholas Ncube

External Examiner: Dr M Shekede

INSTRUCTIONS

1. Answer QUESTION **ONE** AND ANY **THREE** OTHERS
2. Each question carries 25 marks

MARK ALLOCATION

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

1. Explain how GIS and remote sensing can be used in land use planning.
2. "Physical characteristics of the soil are used in deriving the standard soil code", discuss.
3. Outline two land evaluation methods utilised in land use planning.
4. Describe the steps used in communal land use planning in Zimbabwe.
- 5(a) With the aid of a labelled diagram, describe the use of soil profiles in agriculture. **[15 marks]**
- (b) Describe the factors that are used to determine the intensity of land use. **[10 marks]**
6. Explain how the vegetation code is used to derive the livestock carrying capacity.