



**ZIMBABWE EZEKIEL GUTI UNIVERSITY  
COLLEGE FOR LIFELONG LEARNING**

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**FACULTY OF SCIENCE, TECHNOLOGY, AGRICULTURE AND  
FOOD SYSTEMS DEVELOPMENT**

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**DEPARTMENT OF INFORMATION SYSTEMS  
EXAMINATION PAPER**

**COURSE CODE** : GISRS 122  
**COURSE TITLE** : Spatial analysis  
**SPECIAL REQUIREMENTS** : None  
**DURATION** : 2 Hours  
**LEVEL** : 1.2  
**DATE** : June 2024 14 JUN 2024

**INSTRUCTIONS TO CANDIDATES:**

1. This paper consists of 2 sections
2. Answer **FOUR** Questions **ONLY**
3. Start each Question on a new page

1. Define the concept of spatial autocorrelation and explain why it's an important consideration in spatial analysis [25]
2. Describe in detail how to create a population map for any district of your choice in Zimbabwe? [25]
3. Given a business problem of identifying the best locations to open new retail stores, recommend the most appropriate spatial analysis methods to support the decision-making process [25]
4. Describe in detail, the process of image classification or land use classification in google earth engine [25]
5. Explain and justify the importance of google earth engine in GIS applications [25]

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