



JARAMOGI OGINGA ODINGA UNIVERSITY OF SCIENCE AND TECHNOLOGY
SCHOOL OF SPATIAL PLANNING AND NATURAL RESOURCES MANAGEMENT
UNIVERSITY EXAMINATION FOR THE DEGREE OF SPATIAL PLANNING AND
DESIGN

3rd YEAR 2nd SEMESTER 2024/2025 ACADEMIC YEAR
MAIN CAMPUS

COURSE CODE: PPB 1308

COURSE TITLE: URBAN DESIGN

DATE: 22/4/2025

TIME: 2HOURS SESSION : 9.00-11.00

VENUE: LR 7

Instructions:

1. Answer question 1 (compulsory) and ANY other 2 questions.
2. Candidates are advised not to write on the question paper.
3. Candidates must hand in their answer booklets to the invigilator while in the examination room.

QUESTION ONE: 30 Marks

- a. Define the following Terms in urban design
 - i. Urban Design (2mks)
 - ii. Paradigm (1mks)
 - iii. Philosophy (1mks)
 - iv. Theory (1mks)
- b. Discuss the Process of undertaking an Urban Design Exercise (10mks)
- c. Explain at least FIVE Principles of Urban Design (5mks)
- d. Discuss at least FIVE basic urban design parameters/Elements which people use to construct a mental image of the city as explained by Kevin Lynch (10mks)

QUESTION TWO: 20 Marks

- a. Discuss at least FIVE basic requirements of Urban Design (10mks)
- b. Discuss the following paradigms of urban design
 - i. New Urbanism (1980s - Present) (2mks)
 - ii. Sustainable Urbanism (1990s - Present) (2mks)
 - iii. Resilient Urbanism (Climate-Adaptive Design) (2mks)
 - iv. The Garden City Movement (2mks)
 - v. Smart City (2mks)

QUESTION THREE: 20 Marks

- a. Discuss the following philosophies of urban design and their application to contemporary spatial planning.
 - i. High-rise urban living by Le Corbusier 'Radiant City' (5mks)
 - ii. Mixed uses, pedestrian activity and small blocks by Jane Jacobs (5mks)
- b. In his book, Paul.D.Spreiregen identified 16 urban design parameters/elements that constitute the characteristics of a city or its parts. Discuss at least TEN of these parameters (10mks)

QUESTION FOUR: 20 Marks

Using illustrative diagrams, discuss the Space Syntax Theory, its principles and application in Urban Planning (20mks)