## 1. Course Code

2274

## 2. Course Title

Urban Planning

## 3. Teacher

LUKUMWENA, Nsenda

## 4. Term

Spring 2

## 5. Course Overview and Objectives

In this course students will:

(1) learn the basics of urban planning and the role it plays in the development process of cities, both traditional and smart, in the developing countries

(2) learn space analytics, space evaluation and ways of adapting the basic concepts of urban planning in its three generic stages: strategic planning, tactical planning and implementation in developing countries;

(3) learn ways to engage into a group project whereby each and every participant will learn from each other during the collaborative process period.

## 6. Course Goals (Attainment Targets)

(1) Gain analytical and interpretative planning skills likely to support appropriate planning and design interventions.

(2) Understand the concept of the community master plan?a key concept for undertaking the development of planning and its implementation in a fashion that earnestly fits the context of concern.

(3) Building on (1) and (2), students can thus (i) initiate projects that meaningfully and socially impact the targeted society and its urban domain; and (ii) effectively forecast future urban development of the initiated projects.

(4)

(5)

(6)

## 7. Correspondence relationship between Educational goals and Course goals

| Educational goals of the school | | | Course Goals |
|---|---|---|---|
| High level ICT skills | Basic academic skills | | (1) |
| | Specialized knowledge and literacy | | (2),(3) |
| Human skill (Tankyu skill） | Ability to continually improve own strengths | | (3) |
| | Ability to discover and resolve the problem in society | Problem setting | (2) |
| | | Hypothesis planning | |
| | | Hypothesis testing | |
| | | Practice | (3) |
| | Fundamental Competencies for Working Persons | Ability to step forward | (2) |
| | | Ability to think through | (1),(2) |
| | | Ability to work in a team | (3) |
| Professional ethics | | | |

## 8. Course Requirements (Courses / Knowledge prerequisite for this course)

None.

## 9. Textbooks (Required Books for this course)

None. I use several materials, published articles and videos related to smart cities, space syntax, public spaces and walkability.

## 10. Reference Books (optional books for further study)

1. Human Centered Design Tool Kit 2nd Edition 2011 by IDEO
2. Publications: Urban Planning
3. Creative Cities
4. The City Shaped: Urban Patterns and Meanings By Spiro Kostof
5. Rethinking the informal City?Critical Perspectives from Latina America edited by Felipe Hernandez and Lea K. Allen
6. GIS Organisations and People A Socio-technical Approach by Derek Reeve and James Petch Published in 1999
7. Urban contemporary Plannng by Levy, 2015
8. Urban Land Use Planning by Philip R. Berke, David R. Godschalk, and Edward J. King with Daniel A. Rodriguez, 2006.
9. E-Planning, ICTs for Urban Development and Monitoring by Carlos Nunes Silva, 2009
10. Urban Planning, 2nd Edition by Anthony J. Catanese and James C. Snyder, 1977
11. Building Smart Cities, Analytics, ICT, and Design Thinking  2016 by carol L. Stimmel, CRC Press

## 11. Evaluation

| Goals | Evaluation method & point allocation | | | | | |
|---|---|---|---|---|---|---|
| | examination | Quiz | Reports | Presentation | Deliverables | Other |
| (1) | | ◯ | ◯ | ◯ | | |
| (2) | | ◯ | ◯ | ◯ | | |
| (3) | | | ◯ | ◯ | | |
| (4) | | | | | | |
| (5) | | | | | | |
| (6) | | | | | | |
| Allocation | | 10 | 60 | 30 | | |

## 12. Notes

No exam is required. Term report and presentation are required instead.
Course reading references will be provided to students timely.

## 13. Course plan

(Notice) This plan is tentative and might be changed at the time of delivery

| Lesson 1: Overview of the evolution of cities and urban planning as well as recent trends in the practice of urban planning Part-1 |
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| (Lecture 90 min) |
| This lesson presents a Synoptic overview of cities in history, from the legacy of the past to contemporary cities. The overview includes a quick survey of public urban spaces, from the Agora in Greece, to Mediaval Spaces to contemporary Malls worldwide |

| Lesson 2: Overview of the evolution of cities and urban planning as well as recent trends in the practice of urban planning Part-2 |
| --- |
| (Lecture 90min) |
| Review of the City generic forms in history?from organic patterns to the grid pattern to the city as a diagram, to the grand manner and the skyline. |

| Lesson 3: The role of urban planning in cities development process over the time |
| --- |
| (Lecture 90min) |
| This lesson explores the contribution of urban planning to the development process of cities and regions in the past and today, in developed and developing countries, from conventional to smart cities. |

| Lesson 4 Space Analytics and the use of ICTs in urban | (Lecture 90min) |
| --- | --- |
| Introduction to the basics of Space Syntax, its application to urban planning/design, as well as the role of ICTs in the planning and design processes. | |

| Lesson 5: Introduction to Smart Cities | (Lecture 30 min, Interactive |
| --- | --- |
| Discussing the framework of smart cities. Students prepare and engage in a discussion on smart cities both in the developed and developing counties. | |

| Lesson 6: Functional Planning - Land use systems | (Lecture 90min) |
|---|---|

Reading into Physical planning and urban design and urban development. Students will learn the difference between urban planning and urban design.

| Lesson 7: Functional Planning - Master plan | (Lecture 90min) |
|---|---|

Through the overview of the community master plan (or Communitywide), students will gain understanding of the land use Design and of the Real Estate Development.

| Lesson 8: Functional Planning - Public Infrastructure | (Lecture 90min) |
|---|---|

Students will learn about Public Infrastructure, values, and communities sustainability.

| Lesson 9: Functional Planning - Urban Transportation | (Lecture 90min) |
|---|---|

Students learn about Urban Public Transportation planning, systems and delivery.

| Lesson 10: Summary of lessons 6-9 | (Lecture 90 min) |
|---|---|

Reviewing of Lessons 6 through 9. Students comparatively discuss the applicability of lessons learned to specific cases in their own countries and build up a case study to be presented at next class.

| Lesson 11: Presentation of the case study | (Lecture 30 min, Presentation 60 |
|---|---|

Each student is asked to present a case in which they apply skills gained from the previous lessons.

| Lesson 12: Technology Planning | (Lecture 90 min) |
| --- | --- |

Students will learn how to associate technologies (from the introduction of computers into planning to ICTs) to urban planning? be it physical, social or environmental.

| Lesson 13: Lecture by Guest Lecturer -1 | (Lecture 90 min) |
| --- | --- |

Students will learn how to use Urban Planning Analysis tools and Simulation to include forecasting using statistical program (R).

| Lesson 14: Lecture by Guest Lecturer -2 | (Interactive Lecture 90 min) |
| --- | --- |

Students interact with the professor and each other through application of the learned tools in the previous lessons

| Lesson 15: Presentation and Evaluation | (Presentation, 90 min) |
| --- | --- |

Students make their final presentation for evaluation.