THE TECHNICAL UNIVERSITY OF KENYA

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Faculty:	ENGINEERING AND THE BUILT ENVIRONMENT
School:	Architecture Design and Planning
Department:	URBAN DESIGN AND DEVELOPMENT
Current Designation:	Senior Lecturer, DEPARTMENT OF ARCHITECTURE, DESIGN AND PLANNING (DADP)
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Consultation Hours:	8:00AM - 5:00PM MON-FRI



EDUCATION

LEVEL	QUALIFICATION NAME	INSTITUTION	YEAR
Doctor of Philosophy (PhD)	ARCHITECTURE	UNIVERSITY OF NAIROBI(Kenya)	2010
Master of Architecture (M.Arch)	HUMAN SETTLEMENTS	KATHOLIEKE UNIVERSITEIT LEUVEN(Belgium)	1995
Bachelor of Architecture (B.Arch)	ARCHITECTURE	UNIVERSITY OF NAIROBI(Kenya)	1986
Diploma	HUMAN SETTLEMENTS	KATHOLIEKE UNIVERSITEIT LEUVEN(Belgium)	1994
A Level/Equivalent	EAST AFRICAN ADVANCED CERTIFICATE OF EDUCATION	STRATHMORE COLLEGE(Kenya)	1979
O level/Equivalent	EAST AFRICAN CERTIFICATE OF EDUCATION	KAKAMEGA HIGH SCHOOL(Kenya)	1977

WORK EXPERIENCE

PERIOD	INSTITUTION	POSITION
2012 - to date	Technical University of Kenya	Senior Lecturer
October, 2014 - December, 2014	Nordic Africa Institute, Uppsalaeden	Guest Researcher
2019 - 2025	Technical University of Kenya	Academic Team Leader
2012 - 2014	Technical University of Kenya	Chairman, Department of Architecture & Environmental Design
1998 - 2012	University of Nairobi (Department Of Architecture & Building Science	Lecturer
2003 - 2003	Jomo Kenyatta University Of Agriculture and Technology	Part Time Lecturer
1997 - 2002	Kenyatta University(Department of Enviromental Planning & Management	Part Time Lecturer
1997 - 1997	Kenyatta University(Department of Enviromental -Sicio-Cultural Studies	Part Time Lecturer
1988 - 1993	Team Leader &Divisional Architect, Mt Elgon (West Kenya)	Senior Architect
1986 - 1988	MOPWs, Kenya,Machakos District	Assistant Architect

GENERAL STATEMENT ON RESEARCH AREAS

Research into the history traversing precolonial era unto the colonial experience in the urban landscape of the region in a module series titled: 'The Architectural of the city in Eastern Africa' supported through a research grant through the Global Architectural History Teaching Collaborative (GAHTC) / MIT from the Andrew Mellon Foundation, delivered as a teaching module in a series of peer-reviewed lectures.

CURRENT RESEARCH PROJECTS

Evolution of Architectural Education in Eastern Africa	Schools of architectural education in the Eastern African region.

SELECTED PUBLICATIONS

TITLE	LINK TO PUBLICATION	YEAR
Makachia, P.A (2010) Governance and management of urban Housing - Challanges andOpportunities of Dwellers-Initiative Transformation in Formal Housing Production with Cases from Nairobi Housing Estates. LES UNJEUS ET LES DESIS DE LA GOUVERNANCE URBAINE EN AFRIQUE.	View online	
Influence of House Form on Dweller- Initiative Transformation in Urban Housing,	View online	2005
A Manual for organized Self- Help Housing Densification in Eastlands, Nairobi.	View online	2005
Influence of House Forms On Dwellers - Initiated Transformations in Urban Housing.	View online	2006
Urban Management Training Guidelines for southern Sudan State capital Towns, Nairobi.	View online	2008
Transformation of housing in Nairobi	View online	2012
Innovative financing of housing for sustainable growth	View online	2015
Technocratic colonial housing policies and reductive modernism in Eastlands, Nairobi.	View online	2021
Modern Vernacular: Theorizing Popular Architecture.	View online	2021
Modern Vernacular: Theorizing Popular Architecture.	View online	2021
Time & Space in the Architecture of the Eastern African City: Lecture 1 - Urbanism Lecture 2 - Social & Residential Space Lecture 3: Commercial & Civic Space	View online	2022
Time & Space in the Architecture of the Eastern African City: Urbanism Eastern Africa	View online	2022
Time & Space in the Architecture of the Eastern African City: Residential and Social Space	View online	2022
Time & Space in the Architecture of the Eastern African City: Commercial and Civic Space in the City of Eastern Africa	View online	2022
The Swahili House as Heritage in the Eastern African City.	View online	2024
Evolution of Urban Housing strategies and dweller-initiated transformations in Nairobi	View online	2011
The Physical Environment in the slums of Nairobi- An Investigation into the physical & spatial Qualities in the Informal Settlement of Nairobi using Case studies	View online	2011
Evolution of the 'Modern' expression in African Housing - An Investigation of the architectural expression in African residential space using case studies from Eastland's Housing Estates, Nairobi.	View online	2019
Participative design for urban housing	View online	2014
Transformation of Housing in Nairobi	View online	2012
A Cost Modelling Design Strategy for Dwellers-Initiative Transformations in Urban Housing.	View online	2005
Control of Energy in Offices in Nairobi: A Study Of Fenestration In A Tropical Highland Climate.	View online	1998
Starter Unit Concept- Case-Study Analysis of NHC of Kenya Low Income Housing Projects.	View online	1995
Transformation of Housing in Nairobi - Dweller-Initiated Transformations in Formal Housing in Nairobi Estates with Case Studies of Kaloleni and Buru-Buru Estates.	View online	2010
Housing Strategies in Kenyan towns and Dwellers- Initiated Transformations- Case Studies from Nairobi.	View online	2011

POSTGRADUATE STUDENTS SUPERVISION

NAME	PROJECT TITLE	PERIOD
David Lagat	Master of Architecture	2012
Anna Tabu Mysyimi	Master of Architecture	2014
Emmanuelle John Liombo	Master of Architecture	2012
Anita Shitseswa	Bachelor if Architecture	2019
Peter Ndaru	Bachelor of Architecture	2019
N	N	1

COURSES TAUGHT

NAME	DESCRIPTION	PERIOD
EAAQ 4162: Architectural Research Methods	Introduction to scientific research. Design & Research methods in architecture. Qualitative & Quantitative paradigms. Architectural Research Strategies: Simulation & Modeling, Historical Interpretation, Surveys, Experiments & Quasi-Experiments, Logical Argumentation, Case Studies.	January 2019 - TO-DATE
EAAQ 5194: Advanced Architectural Design	Studio-based instruction of architectural design of macro-scale projects including Human Settlements & Urban Design. Housing Design & Typologies. Housing and Population Densities. Site Planning & SWOT analyses. Technology / techniques. Transport / Circulation & Infrastructure studies & design. Environment and Sustainability. Policy & Regulatory frameworks. Conservation & Human Settlements.	January 2016 - DECEMBER 2024
EAAQ 5294: Advanced Architectural Studio 5b	Studio-based instruction of architectural design of macro-scale projects including Human Settlements & Urban Design. Housing Design & Typologies. Housing and Population Densities. Site Planning & SWOT analyses. Technology / techniques. Transport / Circulation & Infrastructure studies & design. Environment and Sustainability. Policy & Regulatory frameworks. Conservation & Human Settlements.	January 2016 - DECEMBER 2024
EAAQ 3199: Architectural Studio 3A	design for primary social groups and institutions. evolving structural order and spatial needs. organizational principles for socio-cultural institutions. brief formulation. site investigation, surveys and analyses. environment and climatic analyses. Graphical presentation and rendering. CAD presentation.	SEPTEMBER 2024 - TO-DATE
EAAQ 3297: Architectural Studio 3B	design for primary social groups and institutions. evolving structural order and spatial needs. organizational principles for socio-cultural institutions. brief formulation. site investigation, surveys and analyses. environment and climatic analyses. Graphical presentation and rendering. CAD presentation.	SEPTEMBER 2024 - TO-DATE
EAAQ 3263: Housing and Human Settlements	Issues of Housing & Human Settlements in development. Rural/urban settlement societal issues. Design & Policy. Environmental Issues. Legal & Regulatory frameworks, Economics & financial aspects. Density control and settlements. Housing: design strategies, form / typology, technology / techniques, cost / affordability, environmental sustainability in human settlements.	SEPTEMBER 2024 - DECEMBER 2024
EAAQ 5263: Contemporary Architectural Theory	Theoretical Foundations of contemporary architecture: Modernism, Populism, Postmodernism, Deconstructivism, Environmentalism, Parametricism. Methods and Principles of analysis. Past awareness and heritage: philosophy of architectural conservation. Popular edifices: social awareness, tradition and the Vernacular. Identity: style authenticity, finding a vocabulary, Africa in a flux, decolonizing the canon. New paradigms and urbanism in Africa. Global perspectives and the Diaspora. The future.	January 2019 - TO-DATE
EAAQ 6291: Design Project 6A	A student self-initiated design studio project through guidance of the supervisor. Design Brief. Site selection and analyses. Feasibility studies. Sketch & Preliminary Designs: in drawings, models & CAD. Detailed Design and Details. Project Report.	January 2014 - TO-DATE
EAAQ 6391: Design Project 6B	A student self-initiated design studio project through guidance of the supervisor. Design Brief. Site selection and analyses. Feasibility studies. Sketch & Preliminary Designs: in drawings, models & CAD. Detailed Design and Details. Project Report.	January 2014 - TO-DATE
EAAQ 6192: Research Project	A student self-initiated final degree investigation demonstrating their research ability. An in-depth study in a design problem strongly-related to the graduation Design Project. The Proposal culminating into a Thesis/Dissertation consists of: Background, Research Questions / Objectives, Literature review, Methods, Fieldwork / Case Studies, Findings & Analyses, Conclusions / Future Directions.	January 2014 - TO-DATE

PROFESSIONAL AFFILIATIONS AND SOCIETIES

TITLE	INSTITUTION
Registered Architect	Board of Registration of Architects & Quantity Surveyors
Corporate Architect	Architectural Association of Kenya
Board Member	ARC-PEACE - International Architects, Designers Planners for Social Responsibility