



Curriculum Vitae "CV"

Dr. Salma Mosaad Hamed Soliman Khallaf	
Scientific Degree	Doctor
General Specialization	Urban Planning Engineer
Specific Specialization	Doctor at the Regional Development Center
Current Job	Doctor at the Institute of National Planning (INP)
Career Progression	Doctor, Assistant Lecturer, Teaching Assistant (at the Regional Development Center) •
Academic Qualifications	• 2025–2026: Carbon Footprint Expert from the Egyptian General Organization for Standardization and Quality. • 2023: PhD in Environmental Planning Engineering. • 2022: Green Building Classification System (LEED) Certificate. • 2020: Attended Key Performance Indicator (KPI) course at The KPI Institute. • 2019: Attended Environmental Engineering and Sustainable Infrastructure course. • 2017 – 2018: Pre-PhD studies in Environmental Planning Engineering. • 2016 – 2017: Assistant Lecturer at the Institute of National Planning (INP), Egypt. • 2016: Master's Degree in Urban and environmental Planning Engineering. • 2014: Bachelor's Degree in Urban Planning Engineering, and Teaching Assistant at the Regional and Urban Planning Department, Cairo University. • 2013: Teaching Assistant at Heliopolis University for Sustainable Development (HU), Egypt.



	• 2012: Obtained various certificates and educational courses from the Faculty of Engineering, Cairo University, and the American University.
Memberships & Core Competencies	• Member of the Egyptian Syndicate of Engineers. • Member of the Saudi Council of Engineers. • Member of the Egyptian Environment Eye Association. • Member of the Saudi Professionals for Sustainability Association (SPSA). • Experience in preparing scientific reports, research, and reviews. • Preparing and executing urban planning projects (GIS mapping, analysis and evaluation, land subdivision, hard and soft landscaping). • Preparing all planning and environmental studies, including Environmental Impact Assessment (EIA) reports, green building projects, and renewable energy projects. • Designing engineering, urban planning, and environmental projects according to specifications and requirements; preparing and reviewing reports and designs
Professional Experience	2024 – Present Lecturer at the Regional Planning Department <i>Institute of National Planning (INP), Cairo, Egypt</i> 2017 – 2023 Urban and Environmental Planning Expert (Part-time) <i>Worked on the following:</i>



- Developing sustainability manuals for municipal projects and creating proposals and ideas in the fields of sustainability, renewable energy, environment, and recycling.
- Developing comprehensive waste management strategies and plans for municipal sector buildings and squares.
- Rehabilitating existing commercial buildings in the municipal sector to comply with sustainability standards.
- Supervising the comprehensive sustainability of municipal squares and parks in Riyadh.
- Leading energy efficiency initiatives in municipal sector projects (squares, administrative buildings, and parking lots) by:
 - Monitoring annual energy consumption rates to determine the appropriate baseline, considering each project's nature, location, area, and occupancy rates.
 - Identifying challenges and studying best practices to provide ideal solutions for shortcomings.
 - Preparing economic feasibility studies and proposing design solutions and alternatives to select the most suitable one for achieving sustainability.



- Conducting technical reviews of mechanical designs, Bills of Quantities (BOQs), and technical specifications.

Nov 2015 – 2017 | Assistant Lecturer at the Regional and Urban Planning Department

Institute of National Planning (INP), Cairo, Egypt

- Sustainability Performance Report: Participated in preparing the report for the planning, industry, and agriculture sectors. Focused on establishing sustainability principles, improving resource use efficiency (land and water), focusing on the agricultural sector to enhance ecological resilience against climate change, and proposing effective governance mechanisms.
- Global Competitiveness Report (Egypt): Prepared in partnership with [Professor's Name]. Relied on the macroeconomic and investment environment attractiveness indices to measure the state's ability to create a capital-attracting environment by developing regulatory and legal frameworks.
- Sustainability and Population Problem Report: Prepared in partnership with Prof. Dr. Hisham Makhoulf. Addressed the historical



development of sustainable development, the impact of population growth on development, and assessed the efforts of the Ministry of Health and Population alongside successful practices.

- Sustainable Management of Water Resources Report: Prepared in partnership with Prof. Dr. Mustafa Samir. Focused on water resource challenges in Egypt's western deserts, rationalization policies, and climate change adaptation.

Jan 2015 – July 2016 | Teaching Assistant (Part-time)

Faculty of Architecture, Heliopolis University for Sustainable Development, Cairo, Egypt

July 2014 – Dec 2015 | Teaching Assistant at the Environmental Planning and Infrastructure Department

Faculty of Regional and Urban Planning, Cairo University, Egypt

- Participated in preparing a research project on the sustainable management of solid waste in historic areas, in cooperation with the Ministry of Antiquities and the "Athar Lina" initiative.



	- Contributed to a research project on renovating and developing building facades in historic areas, in cooperation with the Ministry of Antiquities and the "Athar Lina" initiative. - Prepared a research paper on the sustainable management of water resources, in partnership with Dr. Reda Hajjaj and the Slum Development Fund.
Training Courses & Workshops	<i>Passed numerous remote training courses for leading systems, environmental design, and planning in Saudi Arabia, Egypt, and the UAE:</i> Sustainability & Green Buildings - LEED Accredited Professional (LEED AP) in Building Design and Construction. - LEED Green Associate Exam Preparation Course and self-contained buildings. - Sustainable Architecture and Zero Energy Buildings. - Saudi Building Code and the importance of its application. - Training on Environmental Design Codes. Environmental Management & Systems - Environmental Management System (EMS). - Environmental Auditing and Environmental Impact Assessment for high-risk factories. - Monitoring environmental standards and pollution control techniques. - Environmental health and risk management. - Managing the internal environment of residential buildings and environmental resources and waste management system. - Health, Safety, and Security Systems Projects.



	Energy & Climate Change • Integrated solar energy cells used in construction. • Energy sources and global/local energy consumption. • Seminar at the Climate Change Conference with the African Natural Resources Center (ANRC), infrastructure, and urban development management. Sustainable Development & Policies • The New Republic and Sustainable Development towards a better future. • Governance of sustainable development management in Egypt. • International and regional changes and their impact on Egyptian interests. • The global economic vision of war and the impact of global recovery on the environment. • International workshop on the use of analytical tools and modeling to meet countries' needs. Performance & Engineering • Key Performance Indicators (KPI) course at The KPI Institute. • Practical applications for road engineering and how to benefit from backfill materials. • International workshop of the Arabian Gulf University on waste management
Software & Technical Skills	• Geographic Information Systems (GIS) • Adobe Photoshop • AutoCAD • Revit • 3D Max • SketchUp • Lumion • Ecotect, Envi-Met, CityEngine



	• Microsoft Office (Excel, PowerPoint, Word, Access, Outlook)
Key Studies & Publications	Research paper titled: "Sustainable Management of Water Resources in Historical Areas with Application to Cairo, Al-Khalifa District". Policies of Sustainable Economic Zones under the Fourth Industrial Revolution (4IR): A Case Study on Suez Canal Area Using Fuzzy Geographic Information System (Fuzzy GIS) https://erem.ktu.lt/index.php/erem/article/view/31445 •
Areas of Interest	Geographic Information Systems (GIS), Carbon Footprint, Knowledge Economy, Green Infrastructure, Sustainable Development.
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