

Curriculum Vitae (CV)

AYA MOHAMED SABRY ABAS



Personal Information:

Academic Rank: Assistant professor

Department: Architectural Engineering

Specialization: Smart Architecture - Sustainable Buildings

Position: Assistant professor

Google Scholar: https://scholar.google.com/citations?view_op=new_profile&hl=en

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Education:

Degree	Discipline	Institution	Year
Ph.D.	sustainability and smart architecture	Helwan University	2025
M.Sc.	Sustainable Building	Helwan University	2019
B.Sc.	Architecture Engineering	H.T.I.	2011

Academic Experience:

Institution: Higher Technological Institute- tenth of Ramadan City
Rank: Assistant professor
Dates: 2025

Institution: Higher Technological Institute- tenth of Ramadan City
Rank: Research Assistant (Ph.D. Candidate)
Dates: 2019 - 2024

Institution: Higher Technological Institute- tenth of Ramadan City
Rank: Teaching Assistant
Dates: 2011 - 2019

Research interests:

- Architectural design
- Sustainable Building
- Smart Architecture
- Environmental design
- Sustainable Development.

Publications:

- A methodology for achieving sustainability in educational buildings through smart architecture
- A Proposed Approach for Employing Smart Architecture techniques to Enhance the Sustainability of Educational Buildings

Teaching Experience:

architectural design, environmental design, green building science, and modern design programs.

Courses Taught

- 2024: Fundamentals of Digital Transformation. (FDTC)
- 2021: DAAD KAIRO AKADEMIE (strategic planning as core to strategic management)
- 2021: DAAD KAIRO AKADEMIE (Digital Transformation in Higher Education)2013: Mastering Autodesk 3ds Max YAT learning centers, Heliopolis, Cairo
- 2020: design builder
- 2012: TOT (training of trainers) Faculty of Engineering, Cairo university

Assisting in teaching the following subjects:

1- All design courses:

- Fundamental of Architectural design (level 1)
- Elements of Architectural Design (level 1)
- Architecture design of simple units (level 2)
- Design of Complex Units (level 2)
- Architecture Design (A) (level 3)
- Architecture Design (B) level 3)
- Architectural Design of Complex Buildings (level 4)
- Environmental design (level 4)
- B.SC Project

2- building construction and working drawings

- building construction (level 1)
- building construction & materials (level 2)
- Diploma project

- Execution Design
- 3- Urban & town planning
 - Urban Design in New Towns
 - Town planning (A)
 - Town planning (B)
- 4- Environmental courses
 - Climate and Desert Architecture
 - environmental control
 - Desert Environment
- 5- Other courses:
 - Housing
 - Visual training (A) (level 1)
 - Visual training (b) (level 2)
 - Perspective & Skiagraphy
 - app. Of computer in architecture (A) (AutoCAD 2d)