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Bridging The Gap Between Architectural Education And Professional Practice In Egypt: Analytical Perspectives And Framework Development

Noha Gamal Elmenawy¹, Lamis Saad Eldin Elgizawy², Marwa Atef Abd Elhady³

¹Master's Student, Architectural Engineering Department, Mansoura University nohagamal1312@gmail.com

²Ph.D. Professor, Architectural Engineering Department, Faculty of Engineering, Mansoura
University xxxxxx@.edu.eg

³Ph.D, Associated Professor, Architectural Engineering Department, Faculty of Engineering, Mansoura University xxxxxxx@.edu.eg

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ABSTRACT

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Architectural education has historically grappled with a disconnect between academic curricula and the realities of professional practice. This gap is particularly evident in Egypt, where graduates often lack the competencies and experiential foundations necessary to transition smoothly into the professional environment. This paper aims to analyze this educational-practice gap by assessing the current architectural education frameworks in Egypt, evaluating them against internationally recognized standards such as NAAB and RIBA, and proposing a strategic foundation for developing a methodology that aligns academic output with real-world demands. The research adopts a two-phase analytical approach. The first phase presents a theoretical overview of educational quality in architecture, focusing on definitions, accreditation standards, and global models. The second phase critically examines selected Egyptian architectural programs, highlighting structural and curricular deficiencies in meeting professional requirements. The study identifies key gaps, particularly in practical training, interdisciplinary integration, technological fluency, and responsiveness to market needs. Based on these findings, the paper proposes a preliminary framework to enhance architectural education quality in Egypt, emphasizing competence-based design, collaboration with professional bodies, and curriculum reform. The proposed framework serves as a foundation for future empirical validation and adaptation across different academic institutions. This research contributes to the broader discourse on reforming architectural education to ensure it responds more effectively to contemporary challenges and aligns with the evolving needs of the profession and society.

Keywords: Architectural education, professional practice, education quality, NAAB, RIBA, curriculum reform, accreditation standards.

1. INTRODUCTION

In recent decades, the global architectural education landscape has undergone heightened scrutiny regarding its capacity to prepare graduates for the evolving and complex demands of professional practice. A number of studies indicate that despite the inherently interdisciplinary nature of architecture blending artistic, technical, and social dimensions most academic curricula remain predominantly theoretical, showing limited alignment with professional realities [1].

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This disconnect is particularly acute in developing contexts such as Egypt, where educational institutions face systemic constraints neluding outdated curricula, limited industry engagement, and institutional rigidity that hinder their responsiveness to global accreditation standards and market needs [2].

Despite national efforts to reform higher education and respond to globalization and accreditation pressures, Egyptian architecture programs still demonstrate significant gaps in addressing competencies such as multidisciplinary collaboration, real-life project management, technological innovation, and responsiveness to socio-environmental contexts. Many graduates enter the professional field with strong theoretical knowledge but insufficient practical experience or understanding of the profession's operational ecosystem. This raises critical questions about the effectiveness of current pedagogical models and their capacity to produce industry-ready architects [3].

Globally recognized accreditation systems such as the National Architectural Accrediting Board (NAAB) in the United States and the Royal Institute of British Architects (RIBA) in the United Kingdom provide structured benchmarks for educational quality and professional preparedness [4] [5]. However, the adaptation and integration of such models within regional and local institutions remain varied and context-dependent.

To address these concerns, this study adopts a comparative analytical approach by examining three architectural education models across different geographic and institutional contexts:

- AET (Architectural Engineering and Technology) at Cairo University, Egypt (local)
- CAAD (College of Architecture, Art and Design) at the American University of Sharjah, UAE (regional)
- MIT Department of Architecture, United States (global)

Through this comparative lens, the paper investigates the alignment between educational approaches and professional practice requirements, identifying shared challenges, distinctive practices, and areas of potential improvement.

The goal of the study is to derive insights that inform the development of a preliminary framework for enhancing architectural education in Egypt, drawing from international and regional best practices while considering local constraints and opportunities.

The structure of the paper is as follows:

Section 2 presents a review of relevant literature, including concepts of educational quality, global accreditation frameworks, and pedagogical models.

Section 3 outlines the research methodology and comparative case selection.

Section 4 analyzes the three case studies in depth.

Section 5 introduces a strategic framework proposal.

Section 6 discusses key implications.

Section 7 concludes with recommendations for future reform.

2. LITERATURE REVIEW

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Architectural Architectural education is inherently multifaceted, integrating design theory, technical knowledge, cultural awareness, and creative practice. Educators and policymakers continue to debate the optimal balance between theoretical instruction and hands-on training in architecture curricula. In regions such as the Middle East and North Africa (MENA), academic programs frequently fail to reflect professional practice realities, leading to misalignment between graduate skills and industry expectations. Furthermore, comparative studies in Egypt highlight persistent gaps in practical competencies despite theoretical depth, underscoring challenges in preparing profession-ready architects [6].

2.1. Defining Quality in Architectural Education

Quality in higher education is a multidimensional concept that reflects how effectively institutions fulfill their academic, professional, and societal responsibilities. Scholars have offered several interpretations to define quality within this context. According to **Harvey (1993)** [7], quality can be understood through five key perspectives: *Exceptional Quality*, which refers to achieving standards that exceed expectations; *Fitness for Purpose*, which ensures that educational outcomes correspond with institutional goals; *Value for Money*, referring to the delivery of education efficiently and effectively; *Transforming Process*, which facilitates personal and professional development in students; and *Stakeholder Satisfaction*, which involves fulfilling the requirements and plans of students, employers, and society.

These perspectives provide a foundational understanding of quality as a dynamic interaction between institutional intent, delivery processes, and stakeholder expectations.

Building on this, **Hoyle (2007)** [8] conceptualizes quality as the relationship between predefined needs whether explicit, implicit, or obligatory and actual performance, measured by achievement levels over time. Expanding further, **Stracke (2019)** [9] argues that educational quality stems from the interplay of three fundamental sources: *innovation*, which involves the adoption of modern teaching methodologies and technologies; *history*, which ensures pedagogical continuity through established practices; and *standards*, which provide a common framework for institutions and stakeholders to align their expectations and evaluate outcomes. Together, these perspectives reinforce the idea that quality in education is not a fixed attribute but an evolving process influenced by internal intentions and external demands.

2.2. Accreditation and Benchmarking Systems (NAAB & RIBA)

International accreditation bodies offer structured frameworks that define educational standards and ensure alignment with professional requirements. The NAAB 2020 Conditions for Accreditation classify learning outcomes into "Student Criteria" (SC) such as design thinking, technical documentation, environmental stewardship, and professional ethics [4]. Similarly, RIBA's 2021 Education Framework stresses the importance of critical inquiry, climate literacy, digital skills, and practice-based learning [5].

Comparative studies demonstrate that schools accredited by NAAB or RIBA typically exhibit clearer pedagogical strategies, stronger integration across design studios and technical coursework, and deeper engagement with the profession through live projects or internships [10]. Despite the robustness of these frameworks, their adaptation in the MENA context faces challenges arising from localized market demands, institutional autonomy constraints, faculty readiness, and socio-cultural dynamics. Therefore, localization – not mere replication – of international models is essential for effective educational reform, as demonstrated by recent local evidence highlighting substantial gaps between academic curricula and professional practice in Egypt [11].

2.3. The Practice-Education Gap

The disconnect between architectural education and professional practice commonly referred to as the "theory-practice gap" has long been recognized in academic literature. Schön (1983) described it as a divergence between the abstract, codified knowledge taught in universities and the dynamic, context-

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based "knowing-in-action" observed in real-world design environments [12]. While foundational studio models remain central to education, scholars argue that they do not fully reflect the realities of practice, which involve collaboration, deadlines, client interactions, and technological integration [10].

In Egypt, this gap is further widened by rigid curricula, limited exposure to industry practices, and minimal integration of digital and interdisciplinary tools. Recent evaluations of local architectural programs reveal that many graduates face challenges in adapting to professional environments, particularly in communication, project management, and applied problem-solving [11]. This underscores the need for more practice-aligned learning experiences and stronger academia-industry partnerships.

2.4. Global Case Studies and Best Practices

Institutions such as the Massachusetts Institute of Technology (MIT) exemplify an integrated, research-driven approach to architectural education. At MIT, design studios are infused with technological experimentation, policy analysis, and real-world engagement, fostering a high degree of professional readiness [13].

Regionally, the College of Architecture, Art and Design (CAAD) at the American University of Sharjah (AUS) presents a distinctive model that balances global academic rigor with regional cultural relevance. The program is accredited by the National Architectural Accrediting Board (NAAB) in the United States, ensuring alignment with internationally recognized standar+ds of architectural education. Its pedagogical structure emphasizes design excellence, interdisciplinary thinking, and community engagement [14].

Meanwhile, the Architectural Engineering and Technology (AET) program at Cairo University follows a more conventional educational framework rooted in national standards. While grounded in strong theoretical foundations, the program has increasingly recognized the need to reform its curricula and integrate practical competencies that better align with professional practice demands [15].

These three case studies – local, regional, and international offer comparative insights into how architectural education can evolve to meet global challenges while remaining contextually grounded.

3. METHODOLOGY

This study adopts a comparative analytical methodology aimed at evaluating the alignment between architectural education and professional practice across three institutions operating at different geographic, cultural, and accreditation contexts. The objective is to assess the degree to which each institution addresses key competencies required by the profession and to extract applicable insights for enhancing architectural education quality in Egypt.

3.1 Research Approach

The research employs a qualitative comparative case study approach. This method is particularly suitable for exploring differences and similarities across educational systems and for identifying patterns that may inform the development of an improved pedagogical model. The comparison is based on a set of criteria derived from internationally recognized accreditation standards (primarily NAAB and RIBA), as well as core themes extracted from literature on architectural education quality and practice alignment.

3.2 Case Selection

Three institutions were purposefully selected for this study, representing local, regional, and global perspectives:

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Local: Architectural Engineering and Technology (AET) Program, Faculty of Engineering, Cairo University – one of Egypt's oldest and most established architectural programs, reflecting the conventional national model.

Regional: College of Architecture, Art and Design (CAAD), American University of Sharjah – a NAAB accredited institution offering a Middle Eastern perspective with international academic standards.

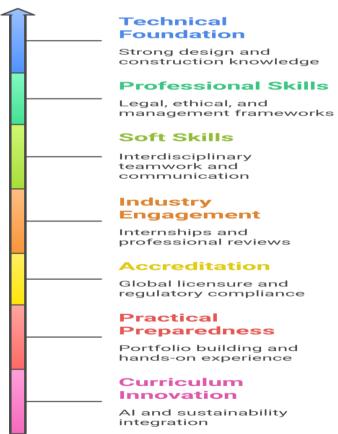
Global: Department of Architecture, Massachusetts Institute of Technology (MIT), USA – globally recognized for its innovative, research-driven, and practice-integrated educational model.

These cases were selected based on their diversity in accreditation status, curricular structure, pedagogical strategies, and integration with professional practice.

3.3 Comparative Framework

To structure the comparative analysis, the study employed a custom analytical framework developed from a synthesis of international accreditation standards (primarily NAAB and RIBA), combined with insights drawn from the literature and contextualized to regional and local realities.

The analysis was guided by seven core criteria, which together reflect the multifaceted competencies required for professional readiness in architecture. These criteria are:



1. Technical Competencies:

Proficiency in architectural design tools, construction systems, environmental performance, and digital technologies.

2. Business & Professional Skills:

Understanding of project management, legal frameworks, budgeting, contracts, and ethical practice.

3. Soft Skills & Collaboration:

Teamwork, communication, problem-solving, leadership, and the ability to work across disciplines.

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4. Industry Engagement:

Extent of collaboration with practicing professionals, firms, real-life projects, and internship opportunities.

5. Accreditation & Licensing Alignment:

Degree of alignment with national or international accreditation systems and preparation for licensure.

6. Practical Preparedness:

Readiness of students to transition into practice, measured by hands-on experience and exposure to real-world design challenges.

7. Curriculum Innovation:

Responsiveness to emerging trends in architecture, including sustainability, digital transformation, and new modes of learning.

Each institutional case was assessed against these seven dimensions to identify strengths, gaps, and areas of convergence. The goal was to extract lessons that could inform the development of a localized, practice-aligned educational framework for Egypt.

3.4 Study Limitations

While the study offers a structured comparison, it is limited by the availability of detailed curricular data for each case, especially where full course-level information was not publicly disclosed. In addition, the proposed analytical framework, while rooted in recognized standards, does not claim to be exhaustive and is open to refinement through future empirical application.

4. FINDING AND COMPARATIVE ANALYSIS

By systematically examining the seven key educational components across all cases ranging from technical competencies to curriculum innovation this section identifies similarities, divergences, and patterns of alignment or gaps.

The aim is not to rank these programs but to extract meaningful insights into how varied educational models prepare students for contemporary professional realities. The cross-case discussion supports the identification of globally transferable practices, context-specific challenges, and opportunities for institutional learning and reform.

4.1 Technical Competencies

- All three programs emphasize a strong technical foundation through studio-based design and construction knowledge.
- MIT leads in embedding advanced computational tools and fabrication technologies throughout the curriculum.
- Cairo University benefits from its engineering integration, offering detailed instruction in building systems, though digital integration remains partial.
- AUS balances traditional technical instruction with exposure to BIM, environmental design tools, and construction detailing, supported by its affiliation with the Faculty of Engineering. However, the implementation of digital platforms across studios remains uneven.

4.2 Business and Professional Skills

 MIT introduces legal, ethical, and management frameworks within structured seminars, though budgeting and real-estate economics are underrepresented.

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AUS includes professional practice components, legal education, and limited exposure to business
topics via design-build initiatives and showcases, though financial management remains a
developmental area.

• Cairo University offers coursework on ethics and regulatory codes but lacks depth in entrepreneurial and financial training.

4.3 Soft Skills and Collaboration

- MIT emphasizes interdisciplinary teamwork through projects with engineering and media departments, nurturing strong communication and leadership.
- AUS integrates soft skills via studio culture, peer interaction, and community engagement initiatives. Collaborative learning is embedded but varies across levels and lacks formal crossdepartmental integration.
- Cairo University fosters communication through studio reviews and team critiques, yet structured interdisciplinary learning is minimal.

4.4 Industry Engagement

- MIT integrates internships and professional reviews within labs and project-based learning, fostering direct firm engagement.
- AUS bridges academia and practice through mandatory internships, guest critiques, and design
 exhibitions. While interaction with firms is active, stronger integration with academic output could
 enhance learning outcomes.
- Cairo University mandates internships, though real-world exposure is often disconnected from academic deliverables.

4.5 Accreditation and Licensing Alignment

- MIT benefits from NAAB accreditation and alignment with NCARB, facilitating global licensure.
- AUS holds NAAB accreditation and has signed a memorandum with RIBA, reflecting strong global positioning while maintaining regional regulatory compliance.
- Cairo University meets national accreditation standards and seeks international validation via UNESCO and UIA.

4.6 Practical Preparedness

- MIT students build portfolios through research studios and advanced labs, enhancing real-world readiness.
- AUS balances portfolio work, model-making, site exposure, and fabrication lab usage, offering solid hands-on experience with room for deeper integration between academic and practical components.
- Cairo University emphasizes practical training through site visits and final-year projects, though lab integration is limited.

4.7 Curriculum Innovation

- MIT exhibits high responsiveness to global trends by incorporating AI, sustainability analytics, and innovation-driven content.
- AUS is positioned between the two implementing digital and sustainability tools with flexibility, though challenges in consistency and diffusion across studio levels remain.

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• Cairo University shows gradual innovation via updated electives and sustainability themes, but curricular change is slow and structurally constrained.

To synthesize the findings of the comparative analysis, the seven selected criteria were applied to evaluate the architecture programs at MIT, CAAD (AUS), and Cairo University (AET). The results are presented in the table below, highlighting programmatic strengths, gaps, and levels of alignment with professional practice. This structured comparison draws directly from curriculum analysis, institutional documentation, and program outcomes.

Main Criteria	MIT Architecture Program	AUS Architecture Program	Cairo University (AET Program)
1. Technical Competencies	Advanced integration of BIM, parametric tools, and fabrication labs	Solid technical foundation, exposure to BIM and environmental tools, uneven digital integration	Strong engineering base, partial integration of BIM and digital tools
2. Business & Professional Skills	Ethics and legal aspects well-covered; budgeting underrepresented	Includes legal and practice elements; limited exposure to business models and financial skills	Basic coverage of ethics and contracts; limited business/management focus
3. Soft Skills & Collaboration	Strong collaborative and interdisciplinary culture	Studio-based collaboration present, informal peer learning encouraged, formal interdisciplinarity limited	Studio teamwork encouraged, interdisciplinary links are weak
4. Industry Engagement	Embedded internships, strong firm partnerships and reviews	Structured internships and firm interaction, better feedback integration needed	Mandatory internships, weak integration with academic output
5. Accreditation & Licensing Alignment	NAAB-accredited, meets ARE standards, globally recognized	NAAB-accredited, RIBA MoU signed, compliant with local licensure	National accreditation, UIA/UNESCO validation sought

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6. Practical Preparedness	Advanced labs, research integration, and external exposure	Portfolios, model- making, and labs available, moderate practical depth	Portfolios, site visits, and final project required
7. Curriculum Innovation	Continuously updated, focus on AI, analytics, and innovation	Innovative elements in electives and showcases, lacks curricular consistency	Incremental updates, slow tech integration

5. PROPOSED FRAMEWORK

Drawing on the comparative analysis across local, regional, and global architectural education programs, this study proposes a strategic framework aimed at bridging the gap between academic preparation and professional practice in Egypt. The framework responds to the seven core criteria used in the evaluation and is tailored to the structural, institutional, and cultural context of Egyptian architectural education.

5.1 Framework Objectives

The proposed framework aims to:

- Enhance graduates' readiness for professional environments.
- Integrate technical and practical competencies into the academic structure.
- Align educational outcomes with accreditation and licensing standards.
- Promote curriculum innovation and responsiveness to global trends.
- Strengthen collaboration between academia and the architecture industry.

5.2 Core Pillars of the Framework

The framework is structured around four strategic pillars:

▶ Pillar 1: Competency-Based Curriculum Design

- Shift from purely theoretical instruction to competency-based learning outcomes.
- Embed technical, environmental, and digital design skills across all studio levels.
- Emphasize integrated studio learning to connect design thinking with technical systems.

▶ Pillar 2: Industry-Academic Integration

- Formalize partnerships with architectural firms, consultancies, and NGOs.
- Introduce structured internship programs linked to academic credit.
- Incorporate design-build projects and real-world briefs into studios and electives.

▶ Pillar 3: Professional Skills Development

- Introduce modules on project management, construction law, contracts, and budgeting.
- Develop interdisciplinary courses involving business, urban policy, and sustainability.

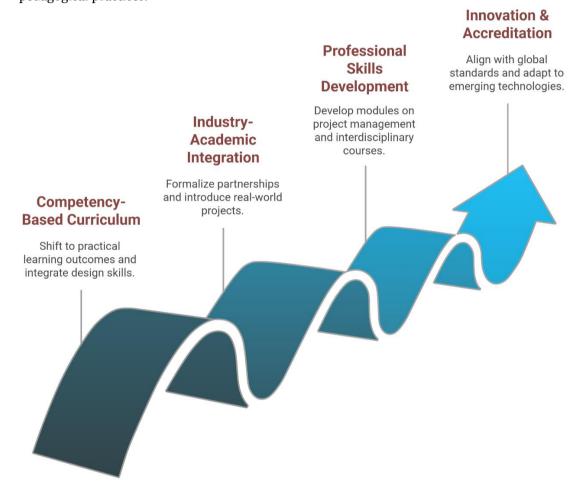
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• Use simulated professional environments for critique, teamwork, and presentations.

▶ Pillar 4: Innovation & Accreditation Alignment

- Establish internal quality assurance units aligned with NAAB/UNESCO/UIA standards.
- Create flexible curriculum modules that can adapt to emerging technologies (e.g. AI, parametric design, climate-responsive architecture).
- Encourage continuous faculty development through exposure to global pedagogical practices.



5.3 Implementation Phases

The framework can be implemented in **three progressive phases**:

Phase	Focus	Time Frame
Phase I: Diagnostic &Alignment	Evaluate current curriculum, map existing gaps, and align with competency criteria.	Year 1
Phase II: Pilot Integration	Implement changes in selected courses or studios, initiate partnerships and faculty training.	Years 2–3

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Phase III: Institutionalization	Expand framework across full program,	
	establish feedback loops, and seek	Year 4 onward
	national/international recognition.	

5.4 Flexibility and Localization

The framework is designed to be modular and adaptive, allowing for integration into different institutions depending on their capacity and readiness for reform. While informed by global models, it maintains sensitivity to local regulatory structures, cultural norms, and institutional constraints.

6. RESULTS AND DISCUSSION

The findings of this study reveal significant disparities in how architectural education programs address the competencies required for successful professional practice. These disparities are shaped not only by institutional resources and accreditation status but also by broader educational philosophies and regulatory frameworks.

- The MIT program stands out for its comprehensive integration of technical, professional, and soft skills within a flexible, innovation-driven curriculum. Its strong engagement with the industry and emphasis on research-oriented design provides students with high levels of preparedness and adaptability.
- The CAAD program at AUS, though operating in a different regional and regulatory
 context, successfully balances international accreditation (NAAB) with regional
 relevance. While some limitations exist—such as uneven digital integration and modest
 interdisciplinary exposure—CAAD's model represents a functional adaptation of global
 standards to a Middle Eastern context.
- In contrast, the AET program at Cairo University reflects the characteristics of many architecture schools in developing countries: strong theoretical foundations but limited innovation, constrained industry engagement, and underdeveloped professional training. This pattern underscores the need for structured reform to ensure graduates are equipped to contribute effectively in contemporary architectural practice.

6.1 Implications for Egyptian Architectural Education

The comparative insights highlight the urgency of moving beyond incremental curricular updates toward more systemic, competency-based educational models. Specifically:

- **Technical and digital competencies** must be embedded throughout all levels of studio instruction—not isolated in standalone courses.
- **Professional readiness** should be fostered through real-life projects, structured internships, and interdisciplinary exposure.
- **Soft skills**, including teamwork, leadership, and communication, must be treated as formal learning outcomes with measurable indicators.
- **Curriculum innovation** must be driven by data, feedback from practice, and continuous benchmarking against international standards.

The proposed framework in this study addresses these gaps by offering a strategic, phased model that can be adapted by Egyptian institutions according to their needs and constraints.

6.2 Anticipated Challenges

Implementing the proposed framework is not without obstacles. These include:

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- Institutional resistance to pedagogical change due to bureaucratic rigidity or academic conservatism.
- **Resource limitations**, particularly in underfunded public universities, which may hinder investment in labs, staff development, and external collaborations.
- **Faculty preparedness**, as transitioning to competency-based learning requires training and mindset shifts among educators.
- Policy alignment, since accreditation bodies and ministries of higher education may lack the mechanisms or incentives to support flexible reforms.

Despite these challenges, the framework is designed to be modular, allowing for gradual integration and piloting without requiring full institutional overhaul.

6.3 Contribution to the Field

This study contributes to the broader discourse on architectural education reform by:

- Introducing a multi-scalar comparison across local, regional, and global contexts.
- Grounding the analysis in **practice-oriented competencies** rather than abstract curricular components.
- Proposing a **context-sensitive framework** that addresses both internal (institutional) and external (professional) quality drivers.

While previous studies have emphasized the gap between education and practice, few have translated this gap into an actionable model rooted in real institutional cases.

CONCLUSIONS

Architectural education in Egypt faces a persistent and well-documented disconnect between academic instruction and the realities of professional practice. This study addressed that gap by conducting a comparative analysis of three architecture programs operating at the local (Cairo University), regional (AUS – CAAD), and international (MIT) levels. The comparison was guided by a framework of seven core competencies that reflect the multi-dimensional nature of architectural practice today.

The findings indicate that while leading institutions such as MIT and CAAD have successfully embedded technical, professional, and collaborative skills into their curricula, the AET program at Cairo University like many counterparts in the region continues to follow a more traditional academic model. This results in limited integration of industry engagement, practical preparedness, and innovation-driven learning. In response, the study proposed a context-sensitive framework designed to elevate the quality and relevance of architectural education in Egypt. Grounded in four strategic pillars competency-based curriculum design, industry-academic integration, professional skills development, and innovation with accreditation alignment the framework offers a phased approach to reform that is adaptable to local institutional capacities.

RECOMMENDATIONS

Based on the findings and proposed framework, the following recommendations are offered:

- 1. For Architecture Faculties in Egypt:
 - Conduct internal curriculum audits to map current gaps against the seven competency areas.
 - Establish partnerships with architectural firms to create structured internship pathways.

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 Introduce interdisciplinary electives and practice-oriented modules in uppervear studios.

2. For Academic Leadership and Policymakers:

- Incentivize curriculum reform through policy frameworks aligned with international standards (e.g., NAAB, UNESCO-UIA).
- Support continuous professional development for faculty in competencybased education and industry trends.
- Facilitate flexible accreditation schemes that allow for innovation within national regulatory systems.

3. For Future Research:

- Apply the proposed framework empirically across other Egyptian universities to test its adaptability and effectiveness.
- Investigate the role of digital transformation (e.g., AI, parametric tools) in reshaping architectural pedagogy.
- Explore student and employer feedback mechanisms to evaluate graduate readiness.

Final Reflection

Improving architectural education in Egypt is not solely a curricular endeavor—it is a systemic challenge that requires cooperation between educators, practitioners, policymakers, and accreditation bodies. This study offers a starting point for that conversation and a structured pathway toward a more practice-aligned, forward-thinking, and globally engaged architectural education system.

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