



## School of Planning and Architecture Vijayawada

(An Institute of National Importance, MoE, Govt. of India)

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### REPORT OF ACTIVITIES

**Al Azhar Engineering 16<sup>th</sup> International Conference,  
Cairo, EGYPT  
February 24-25, 2024**

Submitted by  
**Dr. G. Karteek**  
Assistant Professor  
Department of Architecture

## **INTERNATIONAL CONFERENCE OVERVIEW**

Research Paper Title: **“ARCHITECTURAL EDUCATION- PERSPECTIVES FROM THE URBAN DESIGN STUDIOS”**, Author: **Dr. G.KartEEK**

Conference name: **Al Azhar Engineering 16<sup>th</sup> International Conference, AEIC 2024, Cairo, Egypt**

Organised by: Al Azhar University and Co-organized by JSPS Cairo Overseas Office and JSPSAAE

Conference Venue: Al Azhar Conference Center, Nasr City, Cairo, Egypt



Under the Generous Patronage of His Eminence the Grand Imam, Prof. Ahmed Al-Tayeb, Sheikh of Al-Azhar



Prof. Ahmed Al-Tayeb



Prof. Salama Dawood  
President of Al-Azhar University



Prof. Muhammad Al-Duwaini  
Deputy of Al-Azhar Ash-Sharif



Prof. Mohamed Mehanna  
Conference Chairman



Prof. Mahmoud Siddiq  
Vice President for Graduate Studies and Research

## **REPORT OF ACTIVITIES**

The **Faculty of Engineering, Al-Azhar University**, has invited specialized researchers from Egypt and all countries of the world to participate in the activities of the "Sixteenth Al-Azhar International Engineering Conference." This research initiative was to contribute to the conference by sending research articles that include the latest research results and innovations that describe important developments in all engineering fields.

The Faculty of Engineering held its sixteenth conference, which began its first session in 1989. Al-Azhar International Engineering Conference was held this year in cooperation with Japan Society for the Promotion of Science, "JSPS" (Cairo Overseas Office) and JSPS Alumni Association in Egypt "JSPSAAE" under the title: Modern Engineering Applications and Artificial Intelligence for Sustainability.

The Conference was well organised with Plenary sessions by renowned academicians and researchers as well as the technical sessions. The technical sessions were themed under four categories namely-

- Sustainable Architecture and Urban Design
- Civil and Structural Engineering
- Electrical and Computer systems Engineering
- Mechanical, Chemical and Material Engineering
- The Annual Meeting of JSPS Alumni in Egypt
- Fostering Innovation and Entrepreneurship in Higher Education Institutions

I presented my paper in the category "Sustainable Architecture and Urban Design". The presentation was of 17 minutes duration followed by a question and answer session. The presentation was very well appreciated by the peers and participating students of the University. My full paper is accepted to be published in the Journal of Al-Azhar University Engineering Sector (JAUES) special issue and is expected to be ready by April 2024. I look forward to collaborate with the peers in near future.



Fig 1 : Conference Inaugural at Al Azhar Conference Center, Al Azhar University, Cairo



Fig 2: Conference participants (left) and Conference Session Chairpersons (Right)  
 Apart from the Conference presentations, I took the opportunity to photo document my travel and visit few interesting places within the limited time I had.

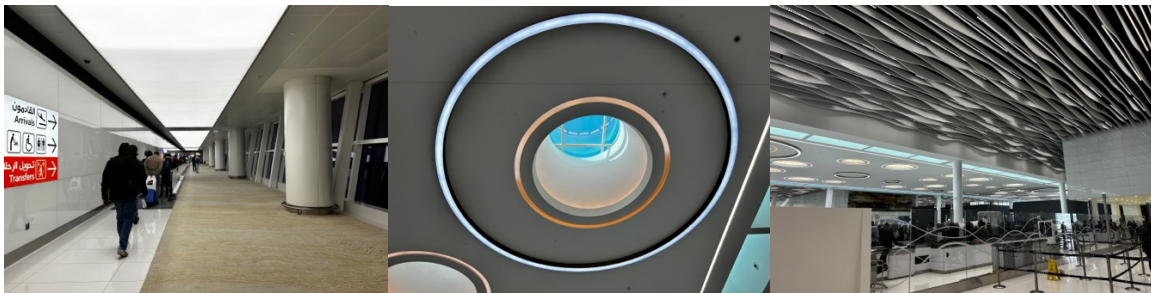


Fig 3: Bahrain Airport: Airport circulation (left), Skylight (Center) and pattern of Ceiling (right)

I had a layover during my onward and return journey at the Bahrain Airport. Through simplistic and futuristic design of the airport, one could feel an architectural brilliance in the way natural light was used and at the same time, artificial light was complemented. So many spatially interesting components itself was live case study, knowledge of which can be transferred to the students at our institute anytime later.



Fig 4: Cairo Metro (Left), Pyramids at Giza (center) and Khufu Pyramid (right)

Half a day opportunity to visit the pyramids at Giza, built about 4000 years, was an experience in itself. The live experience of scale, proportion, symbolism and its history became a good reference for architectural education.

### **Acknowledgements**

I wish to thank the Institute **Chairperson Dr. Amogh Kumar Gupta, Director Prof. Dr. Ramesh Srikonda** and the **Screening Committee members** for giving me the opportunity to visit the Conference under the provisions of CPDA.

## ANNEXURES

### Certificate of Participation



### Notification of acceptance of Full paper in the Journal

The screenshot shows the website interface for the Journal of Al-Azhar University Engineering Sector. The header includes the journal title and navigation links: Home, Browse, Journal Info, Guide for Authors, Submit Manuscript, Contact Us, Guturu Karteek, and Logout. The breadcrumb trail is "My Home / Author / Manuscript Information". Below is a search bar and tabs for "Manuscript Information", "Authors", and "Files". The "Manuscript Information" tab is active, displaying the following details:

Manuscript ID	AUEJ-2312-1576 (R1)
Manuscript Title	ARCHITECTURAL EDUCATION- PERSPECTIVES FROM THE URBAN DESIGN STUDIOS
Manuscript Type	Original Article
Running Title	ARCHITECTURAL EDUCATION- PERSPECTIVES FROM THE URBAN DESIGN STUDIOS
Main Subjects	Architecture and Urban Design.
Abstract	Architectural education has always been critical since it has a direct implication on architectural practise. The ever changing demands of practise have significant criticism on the way architecture curriculum is handled across institutions. In recent years, the relevance of conducting Urban Design studios at the architecture under-graduate level has drawn wide attention. This paper discusses the importance of the Urban Design studios in the context of architectural education in India and how it builds up resource for architectural education. The author stresses the importance of Urban design studios in architectural education and also has documented various methods of conducting the urban design studio with respect to the overarching issue concerning each studio project. For this, six urban Design studios conducted at the Under-Graduate level were considered for further evaluation. The paper also brings in various aspects of the studio, its limitations, relevance, learnings and challenges that can be drawn to conduct similar studios to improve overall architectural education in the Indian context.
Keywords	Architectural education, Urban design, learnings, challenges
Submit Date	2024-01-01 11:43:38
Revise Date	2024-01-25 21:45:39
Author's Comment	None
Comments for Author	
Current Status	Accepted (Scientific)
Modify Date	2024-01-29 01:36:56

**ANNEXURES**  
**Conference Program**



**DAY ONE (SATURDAY 24/2/2024)**

**Plenary Session 1**

Session (P1)

(Hall 1)

(Saturday 24/2/2024)

Time	Presentation No.	Title, Author(s)
12:30 – 13:00	P (1-1)	Bridging Human Behavior and Machine Perception for Driving AI <b>Prof. Takeda Kazuya</b> Nagoya University, Nagoya, Japan
13:00 – 13:30	P (1-2)	Engineered Nanostructured Materials for Green Technologies: Toward Decarbonization & Sustainability <b>Prof. Nageh K. Allam</b> American University in Cairo, Egypt
13:30 – 14:00	P (1-3)	Production and application of 2D nanocarbons through chemical, electrochemical, or mechanical methodologies <b>Prof. Yuta Nishina</b> Okayama University, Japan
14:00 – 14:30	P (1-4)	Integrating Extended Medical Image Analysis and Artificial Intelligence: The Future of Medical Engineering <b>Prof. Maki Sugimoto</b> Teikyo University, Tokyo, Japan

**ANNEXURES**  
**Conference Program**



**Sustainable Architecture and Urban Design**

**Session (A – 1)**  
**(Hall 2)**  
**(Saturday 24/2/2024)**

**Chairperson: Prof. Ayman M. Tayel**  
**Chairperson: Prof. Hisham Sobh**

	<b>Time</b>	<b>Title, Author(s)</b>
<b>1.</b>	<b>15:30 – 15:50</b>	<b>Invited Talk</b> Architecture in Malaysia <b>Prof. Salah Zaki</b> Faculty of Engineering, Al-Azhar University, Cairo, Egypt
<b>2.</b>	<b>15:50 – 16:10</b>	Using urban green spaces in mitigating climate change case study: new administrative capital, egypt <b>Noha Hussein Hefnawy</b> Faculty of Engineering, Benha University, Egypt
<b>3.</b>	<b>16:10 – 16:30</b>	Criteria for recycling vacant urban lands to achieve sustainable development dimensions. <b>Rehab Abdel Fattah</b> Faculty of Engineering, Sinai University, Egypt
<b>4.</b>	<b>16:30 – 16:50</b>	Architectural Education- Perspectives from the Urban Design Studios <b>G. Karteek</b> School of Planning and Architecture, Vijayawada, India
<b>5.</b>	<b>16:50 – 17:10</b>	Emergency engineering and key solutions for creating isolation area after (Covid-19) <b>Ayat Mahmoud Salah, Saleh Al-Sayyid Othman, Muhammad Zakaria Al-Dars</b> Faculty of Engineering, Al-Azhar University, Cairo, Egypt
<b>6.</b>	<b>17:10 – 17:30</b>	Developing open areas towards introducing a smart child-friendly environment as part of 2030 vision in Saudi Arabia. <b>Mashaer Mamdouh AlAbdullah, Mohammed Seraj, and Abedelawal Abdelah</b> Eastern Province Municipality, Service Agency, KSA & Faculty of Engineering, Al-Azhar University, Cairo, Egypt

**ANNEXURES**  
**Conference Program**



**DAY TWO (SUNDAY 25/2/2024)**

**Plenary Session 2**

**Session (P2)**  
**(Hall 1)**  
**(Sunday 25/2/2024)**

Time	Presentation No.	Title, Author(s)
09:30 – 10:00	P (2-1)	Japan Society for the Promotion of Science (JSPS): Functions, Structures and Strategies <b>Prof. Naoko Fukami</b> Professor, Director of Cairo Research Station, JSPS
10:00 – 10:30	P (2-2)	Urban transformations of the city in order to accommodate temporal variables Mobility in Cairo <b>Prof. Soheir Hawas</b> Cairo University, Cairo, Egypt
10:30 – 11:00	P (2-3)	Advancing Assessment and Assistive Technologies for Individuals with Special Needs <b>Ass. Prof. Fady Alnajjar</b> United Arab Emirates University, UAE
11:00 – 11:30	P (2-4)	Machine learning advances in Biomedical Decision-Making <b>Ass. Prof. Haitham A. Elmarakeby</b> MIT and Harvard, USA, and Faculty of Engineering, Al-Azhar University, Cairo, Egypt