



Gujarat Technological University

Graduate School of Engineering and Technology

Report on

Visit to “ARRCON 2022”

Ahmedabad

Date: 22.12.2022, 23.12.2022, 24.12.2022

Organizer:

Gujarat Institute of Civil Engineers and Architects (GICEA)

Event Details:

Date: 22nd to 24th Dec 2022

Time: 10.30 AM to 5.00 PM

Venue: AES Ground, Besides Doordarshan Kendra, Thaltej, Ahmedabad – 380 054

Overview of ARCCON 2022:

As a part of 75th year celebration, GICEA has hosted an event named ARCCON 2022. This event was an exhibition cum knowledge sharing event, which focused on the latest technologies, products and services related to construction industry and allied sectors from India and across the globe.

This event has provided vast learning opportunity to students through technical seminars, civil engineering related model displays, innovative products showcase, documentary projections, etc.

List of technical sessions organized at ARCCON 2022:

S. R. No.	Date	Time	Type	Topic
1.	22 nd Dec	10.00 AM to 12.30 PM	Inauguration	Shri Jagdishbhai Vishwakarma – MLA GJ Mukesh Raval – Former Project Director L&T (Statue of Unity)
2.		1.30 PM to 3.00 PM	Talk Show	Smart Construction Technology
3.		3.30 PM to 5.00 PM	Panel Discussion	Proposed Development Plan of AUDA
4.	23 rd Dec	10.00 AM to 12.30 PM	Talk Show	B2B Summit – Challenges of Practicing Professionals
5.		1.30 PM to 3.00 PM	Talk Show	Sustainable Engineering & Construction
6.		3.30 PM to 5.00 PM	Talk Show	Sustainable Architecture & Construction
7.	24 th Dec	10.00 AM to 12.30 PM	Talk Show cum Discussion	Technical Institutionalization

Goals

1. To understand the market demands and current working strategies from the industry experts
2. To get aware about the application of state-of-art technologies in the construction industry
3. To visit and explore the materials and additives in the construction industry
4. Interact with industry persons through talk show, panel discussions and exhibition to identify the research area
5. To develop the professional etiquettes by interaction with industry experts

Session Details

I. Inaugural Ceremony



Inaugural ceremony was presided by the dignitaries as:

1. **Chief Guest:** Shri Jagdishbhai Vishwakarma – Minister of State Civil Aviation, Micro, Small and Medium Industries
2. **Guest of Honor:** Shri Mukesh Raval – Former Project Director L&T (Statue of Unity)

Shri Jagdish Vishwakarma sir has very heavily impacted on the basic utilities those are served in daily human household by various government authorities during his address. He jerked all the new commerce in the industry to focus on the pinned facilities that indirectly affect the nature of city development. He kept focus on wastage of water and solid waste management in routine practices. He appealed to the industry persons to work more on green practices and site development in an environment friendly way. Lastly he also focused on the responsibility of an individual also to keep and make the place clean in surroundings.

II. Smart Construction Technology



Delivered By: Er. Neeraj Shah

About Speaker: He is an Automation and Robotics Engineer (Entrepreneur, Mentor and Academician). He is a technocrat & avid businessman, most known for his work in the field of Industrial Automation & Humanized Robotics since more than 22 years

Talk Delivery: He has introduced and elaborated each 9 pillars for automation in construction industry. 9 pillars are as:

- | | | |
|--------------------------|--------------------------|------------------------|
| 1. AR/VR – Mixed Reality | 2. Additive printing | 3. Internet of Things |
| 4. Big Data | 5. Cloud Computing | 6. Advanced Simulation |
| 7. Automation Robots | 8. Universal Integration | 9. Cyber Security |

III. Proposed Development Plan of AUDA:



Speakers:

1. Shri N. K. Patel: Civil Engineer & Urban Planner
2. Ar. Anand Tatu: Principal Architect at M/s. Anand Tatu
3. Ar, Jignesh Mehta: Adjunct Associate Professor & Program Chair of Master of Urban Planning at CEPT University
4. Dr. Vatsal Patel: President of GICEA, Ex – Chief Town Planner, AMC Sabarmati River Front Development Corporation Ltd.

Panel Discussion:

Discussion was held on topic “Proposed Development Plan of AUDA”. In the discussion expert has discussed on the need of an hour agendas for development such as:

- | | | |
|-------------------------------|------------------|-----------------------|
| 1. Real Estate Regulation Act | 4. City Planning | 7. Traffic Management |
| 2. GDCR & FSI management | 5. Tourism | 8. Parking Management |
| 3. Utilities & its Facilities | 6. Road Networks | 9. Drainage issues |

IV. Sustainable Engineering & Construction



Delivered By: Shri P. S. Patel

About Speaker: He is the chairman & Managing Director & CEO of PSP Projects Ltd. He is having and experience of over 30 years in the business of construction. PSP Projects Ltd. is a multidisciplinary construction company offering a diversified range of construction and allied services across industrial, institutional, government and residential projects in India.

Talk Delivery: Speaker has played the presentation of facilities and technology available in the PSP Projects. The presentation has elaborately covered the description of Precast Concrete plant of PSP Projects. Speaker has delivered the importance and need of precast concrete in upcoming near future construction industry. Also he has spotted the importance of saving in the steel counts in inches that affects the overall project cost in a huge manner. He also discussed about his experience on saving quantity of steel in practical v/s theoretical design with its effect on actual cost incurred and estimation done before start of a project. He has very keenly made the gathering understand about the precast concrete design.

V. Sustainable Architecture & Construction



Delivered By: Ar. Bobby Desai

About Speaker: He is Director of Design at HCP Design, Planning and Management Pvt. Ltd. He is an architecture and academician with over 25 years of international design experience including project design leadership and principal level practice leadership. He has steered complex projects from their conceptual beginnings to detailed resolution and successful delivery in India, China, Australia, Korea and Europe.

Talk Delivered: He has initiated the talk with UN Habitat Report stating 5 principles of sustainable development. The key habitats are:

1. Adequate spaces for streets and efficient street network
2. Social Mix
3. Mixed land use
4. High construction density
5. Limited Land-use specialization

He also covered the Archaic Regulations by stating an example on how Available Coverage of margins (27%) may produce a better construction space after providing the minimum margins. During his talk he has discussed various international & national case studies on coverage area of construction regions with effective specialization of land-use land coverage in proper manner such as:

1. Nariman Point, Mumbai
2. Union Square, San Francisco
3. Ashram Road, Ahmedabad

Attractions of the Visit

1. Experience zone of latest construction technologies
2. Documentary Projections
3. Model Display Gallery by various industries

Glimpse of students interaction with industry and visit to stalls:





The event visit was ended with esteemed remarks and knowledge gain by the students. The event was attended by 22 students on all three days. The event visit was coordinated by Prof. M. S. Seth under the mentorship of Prof. (Dr.) J. A. Amin, Program Coordinator M.E. Civil and direction of Prof. (Dr.) S. D. Panchal, Director GTU-GSET.

The End