3 DAY WORKSHOP ON CO DESIGNING SOLUTIONS TO AHMADABAD'S HERITAGE AND SMART CITY FUSION

Hathi Singh Jain Temple, Ahmedabad.

Date: 27th – 29th November, 2017

Venue: Auditorium, A2 Wing,

**Gujarat Technological University,
Ahmedabad, India**

Organized by

Gujarat Technological University

Graduate School of Smart Cities Development   Centre for Industrial Design (Open Design School)
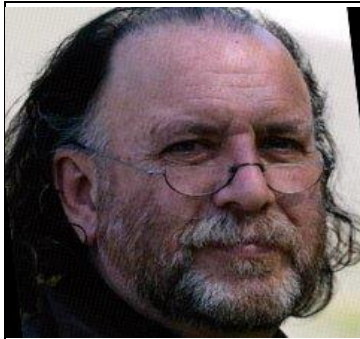
Venue: A2 Conference Hall, GTU Campus, Chandkheda, Ahmedabad

DAY I : 27 November 2017		
09.30-10.00	Registration at Gujarat Technological University (GTU) Auditorium, Chandkheda, Ahmedabad	
10.00-12.30	Anchoring- Lighting of Lamp, Prayer	Ms. Darshana Chauhan, OSD, GTU
	Welcome Note – Felicitation of Guests	Prof. Rajnikant Patel, Hony. Director, GTU-GSSCD.
	Context setting of the Workshop	Dr. Navin Sheth, Hon'ble Vice Chancellor, GTU.
	Keynote 1 - Design Engineering way for Heritage Property Development	Mr. Mark Watson, MDIA, Incoming Leader Fellow at Australia India Institute
	Keynote 2 - Addressing the pressing issues of Heritage & Smart cities	Ms. Avani Varia, **Founder of Museums of Ahmedabad**
	Keynote 3 - **Smart Cities Issues**	Mr. Sarbeshwar Praharaj, PhD UNSW, **Smart Cities Cluster**
	Special Guest	Mr. Mukesh Kumar , IAS , Ahmedabad Municipal Commissioner or His Nominee *
	Chief Guest	Dr. P. K. Gosh, IAS (Rtd.) Chairman, Ahmedabad Municipal Corporation Heritage Cell
	Vote of Thanks	Mr. Karmjitsinh Bihola, Asst. Prof. GTU
12.30-01.30	LUNCH BREAK	
01.30-05.00	Excursion Visit to Adalaj Vav, Ahmedabad–A discussion and Team Building activities beyond the boundaries of Class rooms–A Design Thinking way of learning	
DAY II : 28 November 2017		
09.30-12.00	• K J Method	
12.00-01.00	• Affinity Map Voting	
01.00-02.00	LUNCH BREAK	
02.00-05.00	• Ideation, Sketch, Prototype, Concept Presentation	
DAY III : 29 November 2017		
09.30-12.00	• Through Others Eyes, 3P Check, BMC	
12.00-01.00	LUNCH BREAK	
01.00-04.00	• Idea Finalization	
04.00-5.300	• Valedictory : Mr. Rajnikant Patel , Honorary Director – GTU-GSSCD • Mr. Debasis Nayak, Heritage Expert	

* Confirmation awaited

Mr. Mark Watson, MDIA
MDIA Incoming Leaders Fellow at Australia India Institute; Managing Partner - Design Thinkers Group, Australia; Chief Facilitator

Mark Watson is a Managing Partner (Australia) at Design Thinkers Group, Lead Researcher, Judge - India's Best Design Studio / Project Award 2017 at Pool Magazine, Sessional Tutor / Design Researcher at RMIT University, Director at Design Providence www.designprovidence.com.au, Deputy Board Chair, Convener- **"Design as Process"** group, Founding Chair-Design Chapter at Australia India Business Council, Tutor at Swinburne University of Technology, Research Consultant, Furniture Design Lecturer, Senior Researcher at La Trobe University, Inaugural Judge and Panel Chair-Furniture at Good Design Australia, PhD Candidate at The University of Melbourne, Member Board of Directors, Councilor/Vice President at Design Institute of Australia, Board of Directors Member, Post Grad at RMIT University, Member Board of Directors, Interior Designer, Junior Interior Designer-Bates Smart at Bates Smart.

He is having his education Master of Design (by research), Industrial Design, 1992 – 1996 from **RMIT University**

Activities and Societies: As post grad RMIT University, Masters, Education, 2006 from **La Trobe University, Activities and Societies:** Senior Researcher from **University of Melbourne**

PhD (candidate), Design Management, 2000 – 2003 from **Swinburne University of Technology ,** Education and Training 1972 – 1973 from **Preston Technical College ,** Dual Diploma, Vocational Education & Training, 2014 – 2014 from **Melbourne Polytechnic**

He has reviewed VCAA VCE Design & Technology Y11/12 curriculum & Systems Engineering

He is having Specialization in Interior Architecture, Product Design, Furniture Design, Service Design, Design Thinking, Design Pedagogy and Design Management.

Ms. Aditi Gupta
Managing Partner, Design Thinkers Group, India; Co-Facilitator

She has spent most of her work life being an entrepreneur and support for working with/for them. She is highly interested in the intersection between design, technology, entrepreneurship and sustainability and has experience in entrepreneurship, photography, design (design thinking, service design, product), technology (clean tech, healthcare, social tech), innovation (frugal, democratic), sustainability and retail.

Her Specialization is Entrepreneurship, Design Thinking, Photography, Service Design, Branding, Marketing and Social Media, Design in general, Digital Fabrication, Open Source Technology, Retail / e-Commerce / m-Commerce, Fundraising and Business Plans (Venture Capital / Angel Investments / Private Equity).

She has been known to be a good, team member, creative, fast paced and someone who is able to work across age groups, geographies, domains and sectors. By experience, she is a management professional and enjoy designing & making strategies for new organizations, projects, programs and initiatives.

About Gujarat Technological University

Gujarat Technological University (GTU) is established by Government of Gujarat, largest state university of Gujrat, catering to the fields of Engineering, Business Management, Computer Science, Pharmacy and Architecture. GTU is having a pool of more than 5,00,000 students and 18,000 professors teaching in more than 500 affiliated colleges/institutes across the state of Gujarat.

GTU has initiated a number of innovative policies and it has put in place systems to develop GTU into a great university. Today GTU is considered to be the benchmark among the technological universities of India. Its industry-oriented academic programs and its efforts for establishing and maintaining an active relationship with industries and businesses through GTU Innovation Council has been recognized as the most successful effort in the country. Its Internationalization effort, its Student Start-up Support System and its programs for dissemination of knowledge about IPR are by far the best and most extensive university programs in India.

GTU has established fourteen Post-graduate Research Centers, including the Centre for Infrastructure, Transport and Water Management, Centre for Environmental and Green Technologies and Centre for Environment and Energy Efficiency. It has sixteen Research Groups and four Boards for Research & Development Boards.

The Innovation Council of GTU is well known in the country for its initiatives in grass root innovation work by the engineering students for solving problems of SME industrial units located throughout Gujarat. Intensive innovation efforts have resulted in many patentable outcomes. GTU's Policy Documents for Student Start-up Development and for Skill Development Mission are being used by universities all over India.

About GTU-Graduate School of Smart Cities Development (GGSSCD)

Gujarat Technological University has set up the Graduate School of Smart Cities Development (GSSCD) so as to create a resource center for the nation which understands the requirement of the cities and citizens and helps in the smart development by producing required human resource, relevant research and by encouraging and welcoming projects in smart technologies in its incubator space. The Graduate School will contribute by imparting education, related to smart cities development. The Graduate School will also be involved in the research, consultancy and capacity building activities to support the governments at all levels.

The Graduate School seeks to involve industries and the society to ensure that its studies and research have a relevance to the needs of the society and the industries. Therefore, the graduate school has invited KNOWLEDGE PARTNERS from industry and from cities to avail of their real life experience. Currently there are three KNOWLEDGE PARTNERS as shown in graphically.

The Graduate School also promotes institutes for research partnership to carry out the research for the components at grass root level of smart city development. Therefore, the Graduate School Invited educational and research institutes of GTU and others to become Research Partner with

the graduate school and created the only one of its kind of network of expert from various domain of expertise for contribution to smart cities development. Currently there are more than 30 colleges/institutes in Gujarat as Research Partners of the Graduate School.

Vision of GTU-GGSSCD

To become a national resource center in smart cites development by developing as a point of confluence for Industry, Academia and Government and help developing policies and plans at various Governmental levels.

Objectives of GTU-GGSSCD

Academic

- Post Graduate Diploma in Smart Cities to be offered by online courses shortly. Those who have completed current online courses will get credit for PG Diploma
- Conducting short certificate courses on related topics for developing skilled staff and workforce.
- E-courses on various aspects of organization, technologies and life in smart cities.
- To become a National Resource Centre in smart cities development by developing as a point of confluence for Industry, Academia and Government and help developing policies and plans at various Governmental levels

Research

- To conduct research through sensor lab on development on smart cities. Our present sensor lab will be augmented with support from global experts such as IBM/CISCO. This full-fledged lab will be available for research to GTU Faculties and students, smart city municipal corporations and academia in India and abroad.
- To work with universities and research institutions across the globe to develop innovative technologies.
- To conduct research on the requirements of the Indian cities & citizens and help determine the best of technologies being used across the world in Indian context in collaboration with GSSCD Research Partners.
- To develop strategies for development, which enhances cultural strength of our diverse society in the area, where the smart city is located.

Consulting & Advisory

- Organizing Seminars / workshops /symposium in India.
- Capacity building and training by training municipal engineers and managers, government officers and industrial workers, required for smart cities.
- Advisory functions to government and industry.
- Techno management consultancy

GTU-GSSCD Knowledge Partner

Lighting of lamp by Hon'ble Union Minister Shri M. Venkaiah Naidu on Inauguration of Graduate School on April 18, 2015

Speech by Prof. Rajnikant Patel, Honorary Director, GSSCD. on Inauguration of Graduate School on April 18, 2015

Mr. Pratap Padode, Director- Founder, Smart Cities Council India giving presentation, on 3-day smart city training workshop July 10-12 2015

Visit to Heritage city Ahmedabad: Group picture of participants, in 3-day smart city training workshop July 10-12 2015
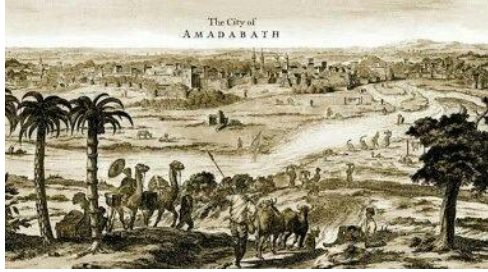

Corporate Presentation by Mr. Nilesh Purey, Vice President, ICT, Gujarat International Finance Tec-City Co. Ltd., During the Visit to GIFT city, Gandhinagar on August 22, 2015

Bio digester of cow dung to produce bio gas as fuel

ABOUT THE HERITAGE CITY OF AHMEDABAD

The city of Ahmedabad widely known as the Manchester of India has its genesis from the city of Ashvapal situated at the banks of river Sabarmati since the 11th Century. It's named after the great grandson of the Sultan of Gujarat Muzzafar Shah I, Sultan Ahmed Shah, who got control over the region of Gujarat in legacy in the year 1411 A.D. The city was established in February 26, 1412 A.D. It has been a spectator as well as a participant of various historic event from Dandi March to cricket matches, from wars to literature, from mishaps to celebrations, from keri no ras to hasy ras, from cultural diversities to the mantra of togetherness. It being one of the oldest cities of the World altogether has experienced diversified extremes ever since it's inheritance and is standing tall.

Ahmedabad is said to have a rich and sundry architecture having a combination of both- the age-old architectonics and the modern infrastructure. It is adorned with the Indo-Is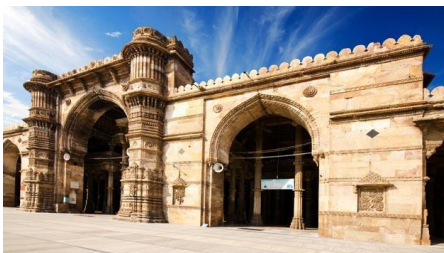lamic architecture dated back in the 9th to 13th Century and Jain temples which are architectural marvels from primitive Gujarat. At one place where the old city consists of 'Pols' which has a traditional wooden construction, with congested and compact neighbourhood, the new city is known as 'Pur' which has wide and broadened roads and contemporary architecture.

The rich and varied heritage of Ahmedabad can be described from its structures like Calico Museum, Sabarmati Ashram, Kankaria Lake, Jam Masjid, Sidi Saiyyed Mosque, Vastrapura Lake, Teen Darwaza, Sidi Bashir Mosque, Sardar Vallabhbhai Patel National Memorial, Sarkhej Roza, Lalbbhai Dalpatbhai Museum, Gates of Ahmedabad, Sabarmati Riverfront and many more.

The few out of several elements that make this city so merriment are the amalgamation of thoughts, opinions, businesses, perspective, and the very culture which strengthens the roots and nurtures the minds which allows it to prosper and have a rich and diversified heritage.

About GTU - Centre for Industrial Design (Open Design School)

Gujarat Technological University, Ahmedabad, India - is always striving for shaping a better future for its students by putting astonishing efforts to make its education system excellent enough so students and ultimately whole society would benefit. In the light of above context, GTU has established a *Centre for Industrial Design (OPEN DESIGN SCHOOL)* besides with other 13 Centres of Excellence to lead and manage the design-oriented learning processes at all its Colleges. The Centre will also help the industries to improve its design processes and it may accept consultancy assignments for design. While the Consultancy projects may help the industry, the objectives during the initial years would be to build and improve capacities among the faculty members. Secondly such projects would provide opportunities to the students to work on real-life projects.

On 2nd February, 2012 (The first cohort of 4-year degree engineering students graduated out in May 2012.), GTU started the process of updating its syllabi. Being the most Innovative and largest University of India, GTU always tries to cope up with all latest trends in Innovation, Entrepreneurship and Technological advancement. In this regard, GTU has introduced a creative and interactive practical approach in its syllabi named "Design Engineering" in AY 2014-15. Design Engineering is very unique and pioneering initiation of GTU based on globally accepted and implemented techniques by designers and engineers called *"Design Thinking"*. One of the key objectives of this initiation is to infuse the Design Thinking mind-set into engineers of future with pervading the methodology into core subjects also. It is a first of its kind initiation in the Indian Education System (In process branches such as Chemical Engineering and IT, one uses the term 'Project-based Learning' for a similar idea). Four modules, in Design Spine, have been introduced from 3rd to 6th semester in every branch of the engineering curriculum of its all affiliating colleges across the Gujarat State.

To move a step forward in this direction, GTU's Centre for Industrial Design (OPEN DESIGN SCHOOL) has conducted a series of Faculty Development Programs (FDPs) to sensitize the Design Driven Innovation for Faculty Members of various colleges and created different frameworks/Canvases so that students can better learn the subject. So far, total 45 FDPs have been organized centrally at GTU till date, in which 3000+ faculty members have been trained for Design Thinking methodology from around 125 Engineering colleges across the states from more than 15 branches. Furthermore, centre has organized an International conference, National Symposium, 36 hours Hack-a-thon events, Design Weekend, Design Clinic programs for Industry, Design Demo Day (DDD), Design Sprint and boot camps etc, the very basic ideas of these events were to strengthen the subject and initiation by applying global practices in Design Thinking to achieve "Make in India" & "Start- up India" initiatives of Honourable Prime Minister, Mr. Narendra Modi.

Faculty Development Program (FDP) at GTU for Design Thinking

Design Thinking workshop by Prof. Osgood Libby, UPEI, Canada for GTU faculty members

Academia - Industry collaboration workshop based on Design Thinking

Design Thinking Canvases developed by students during workshop and projects

San-francisco Cultural Start Workshop

Prof. (Dr) Navin Sheth
Vice Chancellor
Gujarat Technological
University

Mr. Bipin J. Bhatt
Registrar
Gujarat Technological
University

Prof. Rajnikant Patel
Advisor (RCSC), GTU
Honorary Director, GSSCD,
GTU

CHIEF FACILITATOR   Mr. Mark Watson, MDIA, Australia

CO -FACILITATOR   Ms. Aditi Gupta, Design Thinkers Group India

CHIEF CONVENOR,
Mr. Karmjitsinh Bihola, GTU

CONVENORS	COORDINATORS
Dr. ParulKumari Bhatti	Ms. Darshana Chauhan
Dr. Ritesh Patel	Ms. Neha Gameti
Dr. Sarika Srivastava	Ms. Nidhi Patel
Mr. Vikrant Vala	Ms. Kosha Kothari

Registration is by invitation only and compulsory for participation. There are only 40 seats available for this workshop.

Gujarat Technological University

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