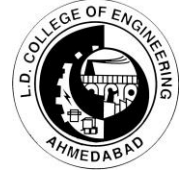A

Report on

Gujarat Technological University

Organized

One Day Seminar on "Smart Cities Mission: A Step Towards Smart India"

In collaboration with

L. D. College of Engineering, Ahmedabad

Date: 30th July, 2016

L. D. College of Engineering, Ahmedabad in collaboration with Gujarat Technological University organized one day seminar on "Smart Cities Mission: A Step towards Smart India". The function was inaugurated by lighting the lamp in the presence of Principal, L. D. College of Engineering, Dr. G. P. Vadodaria, Mr. Vijay Anadkat (Senior Manager, Urban Transport, WRI, India), Ms. Mukti Adwani (CRRI, New Delhi), Professor Dr. P. J. Gundaliya (Civil Engineering) and Associate Professor Hiteishi Diwanji (Information Technology). There were 80 participants who registered for the seminar from all across Gujarat. Dr. G. P. Vadodaria addressed the participants by emphasizing the needs of smart cities and he outlined the work done by L. D. College of Engineering, Ahmedabad in this regard as a research partner for the smart city.

Mr. Vijay Anadkat emphasized on the advantages of having smart cities across India. He explained the process by which Government has identified the cities which need to be smart. He also talked about work done by Municipal Corporation of Ahmedabad and Rajkot.

Ms. Mukti Adwani talked about popularizing the public transport. She, in her presentation highlighted, instead of flyovers- the cities should be strengthened in terms of public transport. She said the walkways should be friendly and comfortable for pedestrians. She also illustrated by picture, the way by which congestion can be reduced if people use public transport. The smartness does not only includes having WiFi but should have hassle free movement of men and vehicles.

Dr. P. J. Gundaliya gave an outline of the projects and presentations carried out by faculty members and students in this regard.

(A) Paper/Poster presentation competition for CE/IT/EC/IC/Biomedical Branch

There were six papers presented during this seminar which are listed below:

Prof. Usha Neelakantan (HOD, EC Department, LDCE) and Prof. Dhaval Parikh (HOD, CE Department, LDCE) performed the duty of jury member.

1) Internet of Things Architecture for Smart Cities Development in India By Prof. Tushar Champaneria (Assistant Professor, CE Department, LDCE), Mr. Sumit Shukla (PG Student, CE Department, LDCE), Ms. Pooja Parmar (PG Student, CE Department, LDCE)

2) Non Invasive Blood Glucose and BMI Monitoring Public Booths for Smart City By Mr. Rahul R. Menon (PG Student, EC Department, LDCE), Ms. Foram Makwana (PG Student, EC Department, LDCE)

3) Survey Study on Sustainable Smart City Services & its Challenges for India by Ms. Krishna Modi (PG Student, CE Department, LDCE), Ms. Riya Gandhi (PG Student, CE Department, LDCE), Prof. Bhavesh Oza (Assistant Professor, CE Department, LDCE)

4) Smart Interactive and Connected Learning : Game Based Learning by Prof. Nirjari Desai (Assistant Professor, IT Department, LDCE), Prof. Mital Panchal (Assistant Professor, IT Department, LDCE)

5) Cloud computing in Smart City by Ms. Bhoomi Ramanandani (PG Student, IT Department, LDCE), Ms. Zili Mandalia (PG Student, IT Department, LDCE)

6) Healthcare System in Smart City using NFC by Ms. Anggy (PG Student, IT Department, LDCE), Darshankumar Parmar (PG Student, IT Department, LDCE), Ms. Tandel Sejal (PG Student, IT Department, LDCE)

All the papers suggested how we can make a city smart and what should be the architecture considering IT enabled services. Internet of things plays crucial role in development of smart cities, we can deploy a software architecture tailored to our needs. Service delivery for smart cities requires a new methodology aimed at delivering open and scalable smart city services by using cloud computing. Smart healthcare system can be defined for self care by designing IT systems. Smart learning can be introduced through game based learning. A smart city can be built that uses information and communication technologies to improve quality of life, efficiency of urban operation and services. Public health booth system is proposed in smart city that provides basic health care facility such as monitoring blood glucose level and BMI of a person without any invasive blood sampling.

(B) Paper/Poster presentation competition for Civil/Mechanical Branch

There were six papers presented in this regard. The judges were Prof. P. J. Gundaliya (Professor, Civil Department, LDCE) and Prof. Pratima Shah (Assistant Professor, Civil Department, LDCE) and Ms. Mukti Adwani

1) PUBLIC PRIVATE PARTNERSHIP FOR SMART CITIES IN INDIA by Ashish Prajapati, Mayur Baria, Nilkanth Patel.

2) INTEGRATION OF PUBLIC TRANSPORTATION SYSTEM: A STEP TOWARDS SMART CITY By Sandip Patel, Toral Vyas

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3) AN APPROACH TOWARDS INTELLIGENT PARKING SYSTEM By Sunny Patel, Ashish Prajapati, Mayur Baria

4) APPROACHES TO ACHIEVE SUSTAINABILITY IN TRAFFIC MANAGEMENT IN SMART CITIES By Nilkanth Patel, Roshni Suchak

5) SMART EMERGING TREND FOR HVAC SYSTEM FOR GREEN BUILDING OF SMART CITY By S.M.MEHTA

6) SMART URBAN HIGHWAYS By Sunny Patel, Mitul Patel, Parth Shah

Winners of Paper presentation competition:

Details of the First, Second and third prizes winners are as follows:

First prize winner	Internet of Things Architecture for Smart Cities Development in India By Prof. Tushar Champaneria (Assistant Professor, CE Department, LDCE), Mr. Sumit Shukla (PG Student, CE Department, LDCE), Ms. Pooja Parmar (PG Student, CE Department, LDCE)
Second Prize winner	Approaches to achieve sustainability in Traffic Management in Smart Cities by Nilkanth Patel (PG Student, Civil Department, LDCE), Roshni Suchak (PG Student, Civil Department, LDCE)
Third prize winner	Non Invasive Blood Glucose and BMI Monitoring Public Booths for Smart City By Mr. Rahul R. Menon (PG Student, EC Department, LDCE), Ms. Foram Makwana (PG Student, EC Department, LDCE)
	Integration of Public Transport System: A step towards Smart City by Mr. Sandip Patel (PG Student, Civil Department, LDCE), Prof. Toral Vyas (Assistant Professor, Civil Department, LDCE)

The valedictory session was graced by presence of Dr. M. N. Patel (Honorable Vice Chancellor, Gujarat University). He encouraged faculty members and participants to take up the research for smart city and come up with solutions that makes a city smart which improves quality of life of human being. He distributed the prize to the winners. The seminar ended with a note of encouragement to the participants to work in this area to achieve excellence through design and implementation of smart city.