

Techno NJR Extension Activity – Civil Department

2015-16

- Survey camp activity was conducted first time 2 km radius around the college campus which have been made part of every year training with extensive work on total station



Figure 1: Out campus Survey Camp photos

- Structural design training was conducted on staad pro software for batch 2012-16 and batch 2013-17
- Students of batch 2013-17 have completed first industrial project of Shakti mill factory plan through Total station and Autocad.

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2016-17

- Professional training on 3ds software for the students of batch 2013 -17 and batch 2014-18. The college plan was surveyed by students by the total station and all points were connected in auto cad software and 3d view has been generated in 3 ds max software. Following 3d views have been made by the students after this training.



Figure 2: one sample of 3D rendered view in 3ds max soft ware made by the students

- Total station survey have been completed at Shastri Circle by 10 students of batch 2014-18 for smart city project in Udaipur
- As the part of Smart City Initiative, a competition has been announced to develop 3D model/drawings for Aayad River. This was very good opportunity to develop virtual reality based animated 3D model for Aayad river project. Around 10 students have been participated in this competition and submit their ideas in UIT.

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Figure: 3 Proposed 3 D view on Ayad River

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2017 -18

- Students of batch 2014 -18 won 1st Prize of Rs 15 Lakhs in **Rajasthan Digifest Greenathon** for making environmental friendly bricks through waste plastic, marble slurry, demolition waste etc.



Figure 4: Rajasthan Digifest Greenathon winners

- Won Prize of Rs 5 Lakhs in **Carbon Zero Challenge**
- Won Prize of Rs 5 Lakhs in **Eco Grants (PVRnest)**
- 2nd Prize of Rs 75 Thousand in **Smart India Hakathon in NIT Trichy**



Figure 5: Smart India Hakathon winners in NIT Trichy

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- **Silver Medal** in Civil Engineering Awarded to Lokesh Puri Goswami in **All India Design Competition** for Engineering Students-2017 with Rs 45 Thousand cash prize



Figure 6: Winners of All India Design Competition

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2018-19

- Students of Techno India NJR swept 6 positions in Top 10 Innovative Projects in Staad Pro software by **Student Design Challenge -2018** conducted by **Bentley** where Nikita Sharma has achieved **1st Runner Up** position.



Figure 7: Winners of Student Design Challenge

- Seventeen Civil Engineering students participated in various competitions organized by Civil Engineering Department at **IIT Bombay** in their annual event Aakaar 2018. Techno India NJR students won **First Prize** in two of the competitions and the **Third Prize** in one competition.



Figure 8: Winners of Aakaar 2018

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- Civil Engineering Team Selected as Finalist by NITI Ayog for Atal Innovation Mission in 2019
- Contribution of Civil engineering students of Techno India NJR Institute of Technology in traffic and behavior survey for Revitalization of Walled City Udaipur

The traffic congestion in the walled city progressively becomes the major component which would influence the travel or working experience. Revitalization of Walled City will not only promote heritage conservation but also give a strong boost to tourism and consequent economic upliftment of the local population. In the research process, the behavior questionnaire and traffic flow survey as the first quantitative measurements were used for 2 preparation days and 6 working days. The behavior survey was attempted to identify the possible attitude or perspectives of the people in Walled City, Udaipur. The results show that there are more than 50% of the participants express the view of disagree or ambiguous perspectives about the transportation condition nowadays. Moreover, there is nearly 70 percent of the whole local residents it is difficult for them to finding parking in the Walled City. The traffic flow survey tries to generally calculate the potential transport condition at a different time interval on certain days. In the process, the different collection destination was settled and it ensured the accuracy and usefulness of the statistics to some extent.

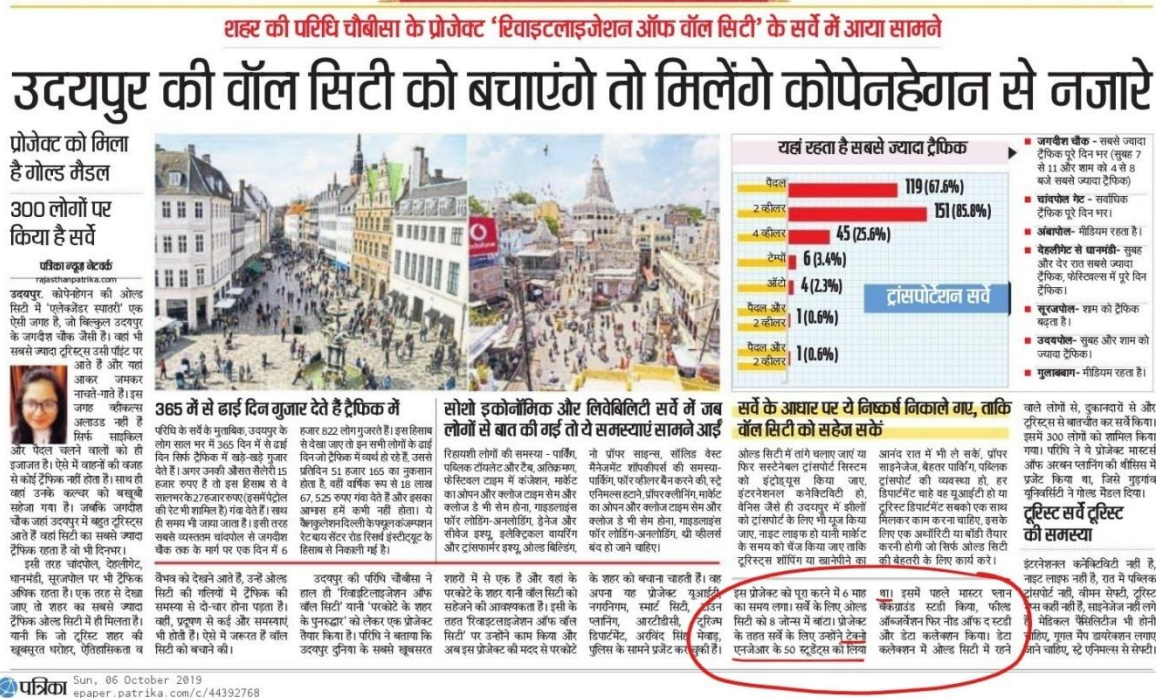


Figure 9: News headlines of the Revitalization of Walled City Udaipur

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- British Council and AICTE invite Dr. Pankaj Porwal to the UK for Leadership Development Program



Figure 10: Photo of Dr. Pankaj Kumar Porwal in UK with other selected members

- Dr. Sangeeta Choudhary has received Best Paper Presentation Award at International Conference in Indore.



Figure 11: Photo of Dr. Sangeeta Choudhary receiving the Best Paper Presentation Award

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2019-20

Solid Waste Management in Savina Vegetable Market

This study focuses on the problems associated with the management of solid waste in the Savina Vegetable Market, which is the largest market in the proposed Smart City Udaipur. An effective system to treat solid waste in an environmentally friendly approach is required to be designed. The main object of this study was to educate people about Solid Waste Management and the benefits of separation at source and to estimate the number of separated wastes for the design of the processing center for the Savina Vegetable Market. In this project total of 27 students of Civil Engineering, 12 street cleaners, and 1 coordinator participated in educating and executing solid waste management in the Savina Vegetable market.



Figure 12: Participants of the Savina workshop


To,

Dr. Sangeeta Choudhary,
Associate Professor,
Department of Civil Engineering,
Techno India NJR Institute of Technology,

Certificate of Appreciation

This certificate of appreciation is issued to Techno India NJR Institute of Technology Udaipur for successfully completing the social welfare project “Pilot Study and Implementation of Solid Waste Management System in Savina Vegetable Market at Smart City Udaipur in Rajasthan” by students and faculties of Civil Engineering Department at Techno India NJR Institute of Technology, Udaipur. This project was executed with support and cooperation from Nagar Nigam Udaipur, Management of Savina Vegetable Market, ICLEI- South Asia and Secure Meter Udaipur.

With regards,



Bhupendra Salodia
Senior Project Office - Udaipur
ICLEI South Asia- Local Government for Sustainability

On behalf of
Deputy Secretary General, ICLEI &
Executive Director, ICLEI South Asia- Local Government for
Sustainability

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ICLEI's mission is to build and serve a worldwide movement of local governments to achieve tangible improvements in global sustainability with special focus on environmental conditions through cumulative local actions

ICLEI- South Asia
C-3, Lower Ground Floor
Green Park Extension
New Delhi – 110016, India

Phone: +91-11- 4974 7200
Fax: +91-11- 4974 7201
E-mail : iclei-
southasia@iclei.org

World Secretariat
Kaiser-Friedrich-Str. 7
53113 Bonn
Germany

Tel: +49-228 / 97 62 99-00
Fax: +49-228 / 97 62 99-01
Email: iclei@iclei.org

Legally represented by
ICLEI (Management) Inc.

World Wide Web
www.iclei.org
<http://southasia.iclei.org/>

ICLEI was founded in the year 1990
as the International Council for
Local Environmental Initiatives.

Figure 13: Appreciation Certificate by ICLEI to the project of solid waste management in Savin market

- Team WRICKS of Civil department won 12500 dollar second prize in world ranked Schulich School of Business, Canada



Figure 14: News headlines of achievement for WRICKS Project

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