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A Professional tour to DUBAI City

The journey towards THE CITY OF CONSTRUCTION - DUBAI was started on 23rd March, 2017. It was due to the fore sight of **Prof. Vimal Patel (HOD)** and his tremendous effort, a tour had been planned from **23/03/2017 to 29/03/2017**. The tour had

been planned considering the comfort, safety and security of the students in a manner to deliver the best through an industrial visit. Eagerly waiting students of civil engineering was going to fulfil their dream of visiting the most beautiful city of the world having the highly advanced equipments and construction techniques.



The tour had been divided in two phase:

Phase 1:

AN INDUSTRIAL VISIT TO MASDAR CITY

Masdar City is a planned city project in Abu Dhabi, in the United Arab Emirates. Its core is being built by Masdar, a subsidiary of Mubadala Development Company, with the majority of seed capital provided by the Government of Abu Dhabi. Designed by the British architectural firm Foster and Partners, the city relies on solar energy and other renewable

Development Company. Initiated in 2006, the city was envisioned to cover 6 square kilometres and estimated to cost US\$18-22 billion. It would take approximately eight years to build, with the first phase scheduled to be completed and habitable in 2009. Construction began on Masdar City in 2008 and the first six buildings of the city were completed and occupied in October 2010. However, due to the impact of the global financial crisis, the initial 1,000,000 square meters (0.39 sq mi) was estimated for completion in 2015; final completion was pushed back to between 2020 and 2025. By



energy sources. Masdar City is being constructed 17 kilometres east-south-east of the city of Abu Dhabi, beside Abudhabi international airport.

Masdar City hosts the headquarters of the International Renewable Energy Agency (IRENA). The city is designed to be a hub for cleantech companies. Its first tenant was the Masdar Institute of Science and Technology, which has been operating in the city since it moved into its campus in September 2010.

The project is led by Masdar, a subsidiary of Mubadala

2016, less than 300,000 square meters (0.12 sq mi) had been developed and final completion was estimated to be 2030.

As designed, the city would be home to 45,000 to 50,000 people and 1,500 businesses, primarily commercial and manufacturing facilities specialising in environmentally friendly products. In turn, more than 60,000 workers are expected to commute to the city daily. As of 2016, fewer than 2,000 people are employed in Masdar, and only the 300 students of the Masdar Institute live on site.

Masdar City will be the latest of a small number of highly

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planned, specialized, research and technology-intensive municipalities that incorporate a living environment, similar to KAUST, Saudi Arabia or Tsukuba Science City, Japan.

Phase 2:

VISIT TO EMMAR COMPANY

The Residences are built around the concept of tranquillity and harmonious living. Centrally located in Downtown Dubai, The Residences offer a soothing ambience with spectacular views of Burj Khalifa and The Dubai Fountain.

One of the first residential communities in Downtown Dubai, The Residences comprises nine high-rise residential towers that are located around the Burj Lake.

Defined by spacious interiors, elegant finishes and an elegant design, The Residences offers 1, 2, 3 and 4-bedroom residential suites and penthouses.

The lifestyle amenities include a swimming pool, squash courts, badminton court, fitness centres, mini-theatre, library, meeting room, day care centre and a business centre. Residents are also provided lockers and storage space.

With four parking levels, concierge facility and 24-hour maintenance & security, The Residences offer stylish living in the heart of the city.

As an integral part of Downtown Dubai, residents become part of one of the most happening lifestyle destinations.

They live in close proximity to The Dubai Mall, the world's largest shopping and entertainment destination. Further retail and leisure choices include Souk Al Bahar, a modern shopping mall which draws inspiration from Arabesque architectural elements.

The Residences serves as the home next-door to corporate offices in Downtown Dubai's Emaar Square, Boulevard Plaza, The Corporate Suites in Burj Khalifa, The Offices, and

Al Saha Offices in The Old Town Island.

Residents also have easy access to world-class hospitality & leisure facilities including - Armani Hotel Dubai, the world's first Armani Hotel located in Burj Khalifa; The Address Downtown Dubai; The Address Dubai Mall; The Palace Downtown Dubai; and Manzil Downtown Dubai and Vida Downtown Dubai.

Outcomes:

- The tour had been vast exposure to civil engineering structure.
- The student enjoyed the learning and cleared their theoretical doubts.
- The student's developed idea of modern construction method and trends.
- The tour helped them to develop the idea of different domain of civil disciplines & critical role of civil Engineering.

The journey towards THE CITY OF CONSTRUCTION - DUBAI was started on 23rd March, 2017. Eagerly waiting students of civil engineering was going to fulfil their dream of visiting the most beautiful city of the world having the highly advanced equipments and construction techniques.

Specially, this city is famous for its extra ordinary construction with totally different views and ideas. The inspiration behind making of any structure of Dubai city is some speciality of its inheritance like the top view of 'Burj Khalifa' which is one of the tallest structure of the world seems like a wild flower of Dubai.

This city is full of skyscrapers. The idea behind another most popular structure or hotel 'Burj Al Arab' is from the sail of boat.

Event on IQ (Intelligence Quotient)

The department of Mechanical Engineering has arranged an Event on IQ (Intelligence quotient) on 28/03/2017. Knowledge is a measure of how well an individual obtains and applies learning from nature contrasted with an age-matched reference aggregate. Knowledge remainder (IQ) tests endeavour to gauge inborn intellectual capacity and future potential, in spite of the fact that they are not invulnerable from the impact of past involvement. A score on an IQ test can just ever be a 'snapshot', a picture of strengths and difficulties that can change, for better or worse.

Benefits of IQ Events:

The appropriate use of IQ events



Intelligence tests for Students



Students were solving the problem of IQ

provides information about a student's ability to perform under controlled circumstances. Used thoughtfully, they

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An Industrial Tour to Bamroli Waste Water Treatment Plant, Eco Farm - Surat and Railway Colony - Baroda

The Department of civil Engineering conducted the tour for the Pre-final Year student under the subject of Waste water and Water supply engineering & Railway Bridge and tunnel engineering.

Prof. Natasha Sagar had coordinated with the Authority OF BAMROLI WASTE WATER TERTIARY TREATMENT plant, **MR. SNEHAL PATEL** OWNER OF THE ECO-FARM (President Nature Club, Surat) and railway authority Pratapnagar.

The visit had been planned by **Prof. Rahul Parmar, Prof. Krunali Savalia** and Student Co-coordinators **Brijesh Narola & Vipul Patel** along with their **CC Prof. Kajal Dudhatara**.



Interaction with Plant Engineer Mr. Ketan Desai

As **Prof. Natasha Sagar** had attained the STTP between periods of 23-27th January 2017 at SVNIT, Surat on "Recent Advances in Waste Management", based on which the faculty had already visited the tertiary treatment plant at Bamroli of 100 MLD capacity is one of the Asia's largest waste water treatment plant.

Eco- farm built under the guidance of Nature club President MR. Snehal Patel Surat is one of the finest example of the eco-friendly, self-reliant & energy efficient home cum garden,



Ultra filtration unit



"Proud and Privilege to visit such a largest tertiary treatment in India at Surat".
"Honoring their dedication to train young engineers"

which was visited by the faculty during STTP

She wanted to deliver the student what she gained so the visit had been planned and executed from 31st March to 1st April, 2017.

The faculties took pain to take the 6 students of pre-final year of **SHRI PANDIT NATHULALJI VYAS TECHNICAL CAMPUS** to this learning campaign.

The students learnt the concept - the world is emerging to



Advance flushing treatment at TTP, Surat

reduce, reuse and recycle the liquid as well as the solid waste, which is a prominent environmental issue for the countries.

Prof. Natasha Sagar with the prior permission of **Dr. K. D. Yadav** made the visit to the Environmental Engineering Laboratory and modern instrument used for environmental impact evaluation done by the Environmental consultancy conducted by the SVNIT up to 5:00P. M. by the laboratory in charge.

The student enjoyed learning through interaction and enthusiastically participated in the learning campaign.

The student had been motivated to build such houses in such

Orientation Program of VLab for Mechanical Students

Objective: To enhance the awareness about use of Virtual Labs

Introduction: Department of Mechanical engineering has organized Orientation Program of VLab for Mechanical Students on 20/02/2017 to increase attentiveness about types of VLabs, Silent features, Objectives of VLabs with Demonstration of Micromachining lab.

Entire session was conducted by Prof. Dilavar Dodia under the guidance of Prof. V H Oza.

Outcome: Students can learn how to conduct experiments in VLab. This would help them in learning basic and advanced concepts through remote experimentation.

Students can get guidance about complete Learning Management System around the Virtual Labs where the



Prof. D D Dodia is sharing knowledge about VLab



Actively participation of Students

students can avail the various tools for learning, including additional web-resources, video-lectures, animated demonstrations and self evaluation.

- Prof. D D Dodia

Feedback:

It was nice session. I learn many thing about VLab and its features. - **Yash Ravaliya** (6th Mechanical)

It was knowledgeable session, I learn about use of Virtual Lab and How to access it. - **Pandya Hardik** (6th Mechanical)

I learn about virtual Lab. Performing experiments through Virtual Lab gives scope for more innovative and creative research work. - **Aarzo Ansari** (6th Mechanical)

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a energy crisis era and polluting era to nurture the endangered species.

They learned that nature has provided its own cycle of waste



reduction which we should adopted for our survival as well as for flora and fauna.

They learned to become nature loving engineers not nature hampering engineers.



Industry Jury and Experts'/Mentors' Feedback

FAIR-2017

PROJECT FAIR

Objective: To enhance the technical skill of the students by interacting with industry delegates.

BH Gardi College of Engineering & Technology successfully imparting a quality education to our students. We in fact, are keen to provide best exposure to our students. Preceding the same traditions we organized "Project Fair" on 8th April, 2017 at Institute campus 9.00 am onwards. The main objective of the event was to provide platform to the final year UG and PG students to explore their creativity and skill related to project work.

Total 187 UG and 25 PG student teams presented their projects at project fair. Among them 137 were UDP projects, 42 IDP projects and 8 FDP projects. Almost 600 UG and 25 PG students have participated, more than 187 projects and Business Model Canvas have exhibited, and more than 40+ Industry delegates have visited the event. Almost all 2nd, 4th and 6th semester students as well as all faculty members of the institute have also visited the event. All students enjoyed the event and took maximum advantage of Industry expert's valuable inputs. Students got the idea about industry's requirement, which can be fulfilled with the ground level practical work. Students also got the idea from the different suggestions of industry experts about enhancement of the project.

The glimpse of today's event is as follows:

Date: 8/4/2017

Venue: Smt TV Mehta Plaza, BHGCET

Expert Panel: Dr. Tejas Patalia, VVP Engineering College, Rajkot, Mr. Hiren Ghelani, Pujan Global Solutions, Rajkot, Mr. J J Joshi, Rajkot Heat Treatment, Rajkot, Mr. Ravi Karoria, EngiLabs Laser Technologies, Rajkot, Mr. B. V. Harsoda, The Institute of Engineers, Saurashtra Local Center, Rajkot, Dr. J. V. Mehta, VVP Engineering College, Rajkot, Mr. Amit Virani, Gopal Snacks, Rajkot.

Total project exhibited: CSE-48, IT-23, Mechanical-51, Civil-17, Electrical-36, EC-12.

Visit of Industry Delegates: More than 40 Industrial Delegates have visited the event. They have given their valuable guidance to the students as well as feedbacks and suggestions also.



Faculty observing the project



Students explaining the project

Feedback from Faculty Members

"Idea and concept of project fair is really good because it is very helpful to all final and pre-final year students to improve their presentation skill and to gain knowledge from the interaction with industrial delegates to students are helpful for students to improve their knowledge" - **Prof. P H Boriya**

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- **Prof. K V Dudhatra**

"It was one of knowledge sharing fair for both students and faculty with industrial experts."

- **Prof. A B Vachhani**



Students explaining project to expert



Expert giving feedback



Expert giving suggestions to students



Faculties interacting with experts



Expert witnessing student's project



2nd year students understanding project



Students representing project to visitors



Industry Experts witnessing student's projects

BEST THREE PROJECTS OF ALL DEPARTMENTS

The best 3 projects from Computer Engineering Department are:

Sr No	Rank	Students Name	Enrollment No.	Guide Name		Project Title
				External	Internal	
1	1 st	Raj Hirani	130040131024	-	Prof. Madhuri Vaghasia	ARISHTHAPATH
		Parth Mangi	130040131036			
		Jaydeep Kataria	130040131033			
		Hitesh Salvi	130040131534			
2	2 nd	Nikhil Surani	130040131539	-	Prof. Priyanka Raval	AASHROJGAR
		Jill Pathak	130040131548			
		Khushbu Bhalodiya	130040131002			
3	3 rd	Sheetal Dharodiya	130040131054	-	Prof. Madhuri Vaghasia	Duck Hunt Game

"Student will get jobs in government & private sector through this project work in future as they have power building new projects"

- **Mr. B. V. Harsoda**, The Institute of Engineers, Saurashtra Local Center

"Industry tie up is a key to develop practicality with theory. Institute is providing good individual exposure to students. Such event boosts students' curiosity and knowledge"

- **Mr. Ravi Karoria**, EngiLabs Laser Technology

"Very good efforts by both students and faculties"

- **Dr. Tejas Pataliya**, VVP Engg. College.

"Keep this type of activity for inspiration to students. Students have conducted very good projects. If guided properly some projects can be a start up project curiosity and knowledge" - **Mr. Hiren Ghelani**, Pujan Global Solutions.

The best 3 projects from Information Technology Department are:

Sr No	Rank	Students Name	Enrollment No.	Guide Name		Project Title
				External	Internal	
1	1 st	Sagar Bhagdev	130040116003	-	Prof. Shyam Kotecha	Crime Investigation & Reporting System
		Priyanshi Sanghani	130040116041			
		Khyati Vasoya	130040116048			
2	2 nd	Himanshu Joshi	140043116003	-	Prof. Dharmesh Bhalodiya	e-Bus Pass Registration & Renewal System
		Nupur Sahedani	130040116040			
3	3 rd	Divyesh Vekariya	130040116049	-	Prof. Dharmesh Bhalodiya	Promote Product
		Mital Kundidiya	130040116022			

Feedback from 3rd Year Students

"I am amazed by seeing project ideas of my senior. This will help me to think creative for my project definition."
- Manthan Radadiya

The best 3 projects from Mechanical Department are:

Sr No	Rank	Students Name	Enrollment No.	Guide Name		Project Title
				External	Internal	
1	1 st	Jeet Trivedi	130040119112	-	Prof. Devendra Parmar	ALAGE as Biofuel (The fuel for future)
		Harsh Pandya	130040119077			
		Umang Trivedi	130040119113			
		Kishan Vyas	130040119121			
2	2 nd	Mohit Kamliya	130040119058	-	Prof. Meghavi Prammar	Commutable Sling
		Devangi Dhandhukiya	130040119518			
3	3 rd	Mayur Ahuja	130040119001	-	Prof. Vijay Mehta	Design & Fabrication of Solar Based Garlic Dryer
		Shrey Bhalani	130040119006			
		Chirag Chudasama	130040119017			
		Priyank Kavar	130040119090			

"Project presented by students is very innovative. We got idea about our future projects and got idea about much technical skill"
- Parmar Dharmesh

The best 3 projects from Civil Engineering Department are:

Sr No	Rank	Students Name	Enrollment No.	Guide Name		Project Title
				External	Internal	
1	1 st	Keval Chikhaliya	130040106006	-	Prof. Vimal Patel	Use of Different Industrial Waste Aggregate as Partial Replacement of Course Aggregate in Concrete
		Vrundan Godhasara	130040106010			
		Aahmad Yafai	130040106061			
2	2 nd	Yash Chhaniyara	130040106062	-	Prof. Jay Vekariya	Repair & Rehabilitation of Structural Members
		Divyesh Ramani	130040106049			
		Deep Badrakiya	140043106001			
3	3 rd	Piyush Bhimani	130040106004	-	Prof. Natasha Sagar	An Experimental Analysis on Blend on Jute and Plastic Waste to Control Soil Liquefaction
		Piyush Dobariya	130040106007			
		Piyush Paghdal	130040106044			
		Tanvi Sojitra	130040106055			

"It is informative fair that help me to get some ideas for my future work and got some innovative knowledge which is useful for my upcoming days."
- Tushar Baraiya

The best 3 projects from Electronics & Communication Engineering Department are:

Sr No	Rank	Students Name	Enrollment No.	Guide Name		Project Title
				External	Internal	
1	1 st	Aditya Prajapati	130040111028	Prof. Chandresh Parmar	Prof. Manish Patel	Wireless Notice Board
		Meghana Chanagrani	130040111006			
		Seeba Singh	130040111030			
		Ashwini Gohil	130040111011			
2	2 nd	Abhilasha Bhesaniya	130040111003	Prof. Chandresh Parmar Prof. Sunil Bhatt Mr. Harshad Pansuriya	Prof. Dipak Rathod	Smart Farming
		Priyal Mehta	130040111020			
		Sudhir Rupapara	130040111025			
		Keval Pansuriya	130040111029			
		Sachin Sanghani	130043111005			
3	3 rd	Bhut Snehal	130040111005	Prof. Chandresh Parmar	Prof. Khushbu Mehta	Modern Transportation System
		Mungra Donika	130040111010			
		Jadeja Hetalba	130040111014			
		Jethava Nirupa	130040111017			

Feedback from Final Year Students

"The most fruitful day for us. The different project ideas were presented by live demos and reports"

- Himanshu Joshi

"During a great journey of UDP project I learn many things. It is not just a project but it gives a great opportunity to team work, management and capacity to solve real life problem"

- Sarvaiya Brijrajsinh

"It was a very good experience to get suggestions from experts, faculties and batch mates at one place"

- Gadhiya Riddhi

The best 3 projects from Electrical Engineering Department are:

Sr No	Rank	Students Name	Enrollment No.	Guide Name		Project Title
				External	Internal	
1	1 st	Jay Pathak	130040109043	-	Prof. Nirav Mehta	Design & Implementation of efficient solar power system for Multi-mobile charger.
		Chirag Tala	130040109056			
		Vaidik Makdia	120040109069			
2	2 nd	Hardik Dahiya	130040109515	-	Prof. Tarang Joshi	Variable frequency drives providing display & Numerical Key-board facility.
		Rushabh Doshi	130040109519			
3	3 rd	Ravi Kher	130040109030	-	Prof. Nirav Mehta	Automation of chemical process plant based on PLC/SCADA.
		Parth Rakholiya	130040109046			
		Hardik Desai	140043109014			
		Dhaval Busa	130040109010			

OUTCOME OF THE EVENT:

- Students can feel more confident to present their work.
- Industry expert guidance will help them for future projects.
- Students will also get help from funding agencies and government bodies too.
- They are also able to get market for their projects.
- They feel pride that their work is appreciated by experts.
- Industry - Institutions liaison will become strong.
- Will also help to bring industry ready professionals, by bridging the gap between academics and industry.
- 3rd year students can get the guidance from their seniors for their future action.

"We came to learn a lot many new things from industry expert how actual prototype model may be useful for society."

- Mehta Priyal

Industrial Visit to Railway Station, Rajkot

Aim:

- Understand railway track
- Components of railways
- Visit substation and working of signals
- Learn about overall controlling

Department of Civil Engineering had organized a visit to Rajkot railway junction for 6th semester Civil students, on 16th February 2017. Visit was planned with the aim to enhance technical of students regarding Railway Engineering and for real time learning. Initiation was taken by Prof. Nidhi Chandarana and Prof. Jagdish Bhalsod. Special thanks to the Railway's Senior section Engineer to provide fabulous knowledge to our students.

Outcome:

- Know the knowledge regarding Railway track from theory



Technical Components

to original.

- Students got deep knowledge regarding signals and their working
- Students were able to visualize all the components.



Pride of our respect



Honoring our College



Understanding Execution of operation



Gardi Memories



Few glimpse of system operation



Studying Railway signals



Learning regarding components from officials



Taking guidance and solving their query

Total Station Workshop for Faculty

"There is no age of learning and an excellent teacher is continuous learner"

The Head of the department **Prof. Vimal Patel** organized the workshop for faculty development program on **"How to Work on the Total Station?"** for the faculties on **1st March, 2017**.

The workshop had been co-ordinate with the Reputed Total station distributing company **"Lawrence and Mayo"** by **Prof. Jagdish Bhalsod** and **Laboratory Assistant Mr. Dhaval Chavda**.

The workshop had been conducted by **Mr. Devang Vyas** team in which he described the various application of the total station and it's use on the field. The faculties of

civil department had participated fully and enjoy the session while learning to work on instrument. The whole department had been immensely satisfied to have the demonstration of the workshop.

Outcomes:

- The faculty develop the idea of advances of the instrument operation and maintenance,
- The faculties will encourage and help student to work on the total station,
- The student will be inculcated directly the site handling skills through these type of workshop and demonstration by faculties.

Glimpses of the transformed skilled artisan faculties of civil department:



Conti... from page 3 Event on IQ

give a snapshot of current strengths and weaknesses and suggest possible strategies for support and intervention. IQ should be viewed in the context of the individual as a whole. Of course, a high IQ does not guarantee future success in examinations or life in general, but it can clearly be helpful. Hard work and

application skills are as important, if not more so, especially as the students progresses through the education system and into adult life.

Students Feedback:

Darshan Pansuriya (6th Mechanical) : It's a very useful to increase the logic.

Yash Thanki (6th Mechanical) : It's one

of the good experience to know our IQ.

Amlani Kishan (4th Mechanical) : Thanks for arranging this type of IQ event which was helpful in our future.

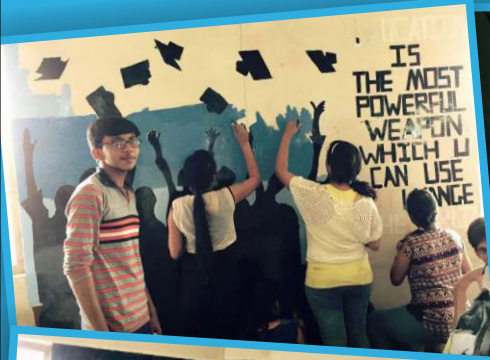
Rathod Hiren (4th Mechanical) : This type of event increase Student IQ level.

- Prof Y V Champaneri

Editor : Prof. Virang Oza
Co-ordinator : Hiral Ganatra

For any suggestion or queries, mail @ garditimes_sub@gardividypith.ac.in

Graffiti



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