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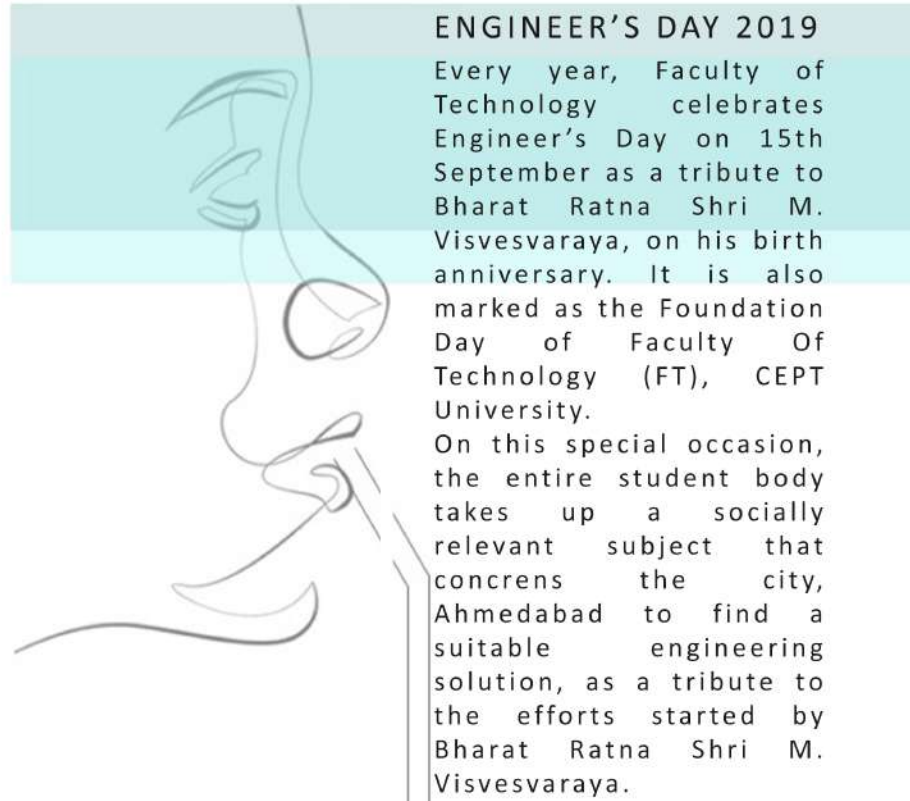
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ENGINEER’S DAY 2019

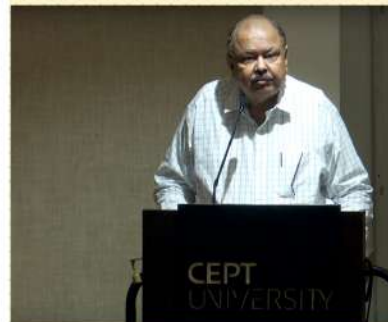
Every year, Faculty of Technology celebrates Engineer’s Day on 15th September as a tribute to Bharat Ratna Shri M. Visvesvaraya, on his birth anniversary. It is also marked as the Foundation Day of Faculty Of Technology (FT), CEPT University.

On this special occasion, the entire student body takes up a socially relevant subject that concerns the city, Ahmedabad to find a suitable engineering solution, as a tribute to the efforts started by Bharat Ratna Shri M. Visvesvaraya.

Extensive study on the selected topic is done through various surveys and research and the results/solution are presented in front of experts of the field.

The topic for this year’s Engineer’s Day was ‘Ground water recharge as a solution for Urban Flooding’. To demonstrate the research carried out by student body, special guest Dr. Jay Narayan Vyas was invited.

Two special lectures were conducted as a part of Engineer’s Day Celebrations. The first lecture was given by Dr. Jay Narayan Vyas on 14th September, 2019 where he shared with us his knowledge on our research topic.



The second lecture was conducted on 15th September 2019. The lecture was on Innovative Practices For Tall Buildings: Design and Construction by Mr. Girish David.

E-DAY PREPARATIONS

ACAD WORK:

To mark the event of Engineer's Day FT carried out research on the topic of "Ground Water Recharge as a solution for Urban Flooding" after many discussions, debates and deliberations.

Each and every student was openly invited to suggest a topic for Engineer's Day. Of the various topics discussed keeping in mind the current scenario and escalation in the daily life problems caused due to urban flooding, the latest topic was finalized. This year's academic team comprised of - Aashir Khan, Ruta Patel, Nipun Patel, Khushi Shah, Renuka Gopalakrishnan, Riya Maheriya, Urja Gandhi, Gaurav Goyal and Mahir Patel.

The team would also like to heartily acknowledge- Nilraj Chhasatiya, Kirtan Shah and Vivek Parmar for their valuable guidance and support.



WHY THIS TOPIC?

With the increase in the sprawl of concrete jungles the flow of water has increased in proportion to the urbanization of the watersheds. Consequently, the capacity of the natural drains has decreased, resulting in flooding. In the summer of 2019, India faced acute shortage of water in both rural and urban areas. Water-logging in urban areas causes great inconvenience to residents and commuters, making basic services unavailable. Urban flooding reduces the sanitary levels leading to diseases. India is one of the largest consumers of ground water at a staggering 25% of the global amount. In the past decade there has been a 61% reduction in the pan-India groundwater levels.

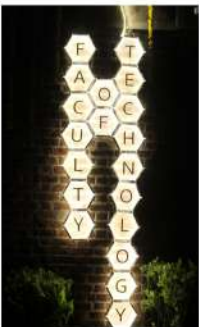
The per capita water availability in the country has come down 70% from 1951 to 2011, in a span of 60 years. There has been a 15% reduction in the per capita water availability in just a decade. Per capita annual water availability has declined from 5,177 cubic meters in 1951 to 1,508 cubic meter in 2014 and is likely to reduce further to 1,235 cubic meters by 2050. If the current trends continue, in 20 years about 60% of all India's aquifers will be in a critical condition.

GLIMPSE OF FLASH MOB AND NUKKAD NATAKS

Flash Mob Headed by:
Jugal Gandhi, Hemali Joshi,
Aanshi Gohel, Avi Agrawal
and Param Janani
Nukkad Natak headed by:
Ankit Bhatol, Aanshi Gohel
Madhav Dave



STRUCTURES 2019



Hexagon Structure, as the name suggests is structure consisting of multiple hexagons forming cantilever designer roof at the entrance of

of Faculty of Technology. The major problem during the execution was sustaining the cantilever over the building because of its light weight, which was efficiently managed by team. The structure not only shows the technicality but also the glory of the building because of the lightnings embedded in it.

Proposed by : Jay Patel
Executed by: Batch 16

The word IKSHVAKU, stands for 'first of its kind'. The structure, inspired from "SHUKHOV" tower located in Russia, is the first ever diagrid cantilever to be built in Gujarat. During the construction of the structure, various major challenges were encountered such as thunderstorm and lighting issues. But thanks to the support of GB, and minor last moment design changes, made it possible to complete the structure on time. the inauguration was celebrated by a round of garba



Proposed by : Maitri Kadia and Anjan Parikh
Executed by: Batch 16 and 17

E-DAY QUIZ AND COMPETITIONS

CONSTRUCT-O-MANIA

A technical quiz 'Construct-O-Mania' based on practical construction engineering was conducted by FT-PG students as part of Engineers day celebration. Both UG & PG students from Faculty of Technology participated in a team of two for the event. An initial screening round which was pen-paper based was kept to test their ability to score maximum in a limited time constraint. 10 teams reached to semi-finals which was grouped into two groups. Each group consisting of 5 teams crusade amongst each other in the buzzer round which consisted of jumbled words, Kaun Banega Crorepati (KBC) & a technical round. Top 2 teams from each group got selected for the final round which was based on technical, picture based & general knowledge. The format was kept surprising and it kept changing in rounds to make it more interesting. Daksh & Vishwas from MCEM (Sem I) won the title and the runners up were Meet & Dhruv from MCEM (Sem I). The Quiz ended up with an insightful response from all the participants.



OUTLOOK 2.0

It's a matter of perspective", such was the tagline this year for Outlook. It is an intellectual debate organized by FT-UG as a part of Engineer's Day. 15 participants took part in the competition this year. Prof Anil Kumar Roy (Faculty of Planning) and Prof Reshma Shah (Faculty of Technology) were the judges. Group discussion stage tested individual participant's skills for a spot in Round – 2. The topic for the GD was announced 5minutes prior to commencement and the discussion lasted for 15-20 minutes wherein participants would present their views, supported by justifications and facts.

The participants were qualified on the basis of predetermined criteria. So from a pool of topics, one selected by the judges which were, "Has technological advancement made human life easier or difficult?". For brainstorming time of about 2 mins was given to individuals. Following this, participants started their debate which heated up the room. With each round ahead, it became more intense with every participant's discussion proceeding further.

Out of 15 participants, only 6 qualified to the finals, bifurcating them further into teams of 2. It was a treat to watch the finalist compete for the title on a challenging topic. The topic for the final round was "Should non-veg be banned in Gujarat". Non-vegetarians had a tough call debating against the topic, but that is what outlook is all about being cogent and manipulating one's mind in such topics. Concluding, the team against the topic won by praising the culture of India all along and persuaded the judges in their favour, winning team and runner up teams were awarded cash prizes.

SAWAAL JAWAAB

Sawaal Jawaab 4.0, an informal quiz was organised by Abhishek Gajjar, Dhaval Patel and Chandani Nathani, as a part of E-Day celebrations at GIDC Bhavan. The quiz consisted of four rounds:

The questionnaire of the quiz consisted of famous personalities, brands and logos, basic traffic rules, fandoms, google doodles, amul tropicals and various other general knowledge topics.

Out of the 7 teams that participated, 3 went on to the finals. The winning team was of Vighnesh Jain, Arpit Kanv, Kahan Shah and Aryan Raj Arya.

BOX CRICKET LEAGUE

The box cricket league was an inter department PG tournament conducted from 17th to 22nd September, 2019. A total of 8 teams divided into 2 groups, competed against each other to win the BCL'19. Every team from Group 1 played against all the 4 teams of the Group 2. The top 2 scorers from each group then played for the semi-finals. After 2 semi-finals matches, two teams were selected for the finals, one from Faculty of Design and another from Faculty of technology. Team B (FT): Jesal, Gaurav, Pashwa, Kush, Divyesh, Shubham, Sanyunkta defeated Team A (FD) in the final match.



E-Day Cultural Events

CONCERT AND CULTURAL NIGHT

FT-ians celebrated the occasion by inviting Sukhinder Singh and his crew to celebrate a successful engineers day. The students sang and danced along the jugalbandhi of the folk singers.



Students performance night was also organised to showcase the diverse talents of FT on the next day. In continuation with the ongoing celebrations, a very popular band called 'Meghdhanush' was also invited on 15th September. They are one of Gujarat's foremost band widely recognised for their Hindi & Gujarati Fusions and unique covers.

SOCIAL WORK



FT-ians held an interactive session with Gheljipura Primary School, where they educated their students about the rain water harvesting system and the basic principles used in the system. We also installed a roof top rainwater filter called "PAVITRA" (a product of Swaneer Innovations) which will help the school collect rain water from the roof top, filter the impurities and recharge the ground water by discharging the cleaned water directly into the school borewell.

The main point of conducting such session was to make the younger generation realise the importance of pure water and how to effectively use as well as conserve it.

AMBIENCE AND INSTALLATIONS

In the spirit of Engineer's Day celebrations, various kind of installations were made by the ambience team. All the installations creatively showcased the skillset and workmanship of the students of FT, and also their enthusiasm of the student body towards the celebrations.



By: Akshat Patel



By: Pooja Chandra



By: Dhruv Patel



By: Batch 18

CELEBRATIONS

NATIONAL REMOTE SENSING DAY

'National Remote Sensing Day' is celebrated on the 12th of August in India, to honour the legacy of the great visionary, Dr. Vikram Sarabhai. Joining the festivity, M.Tech Geomatics Program (FT-PG) planned a series of educational and interactive activities, lectures & games, related to the theme Remote Sensing and Space science, with special emphasis to its application for Environment and Society.

5th Sept. 2019 was marked by an educational trip to Vikram Sarabhai Space Exhibition Centre (VSSE), followed by a visit to AG High School, Navrangpura on 6th Sept.

The final RS day celebrations, on 7th Sept. 2019, saw a total of 70 participants (students, research scholars, and alumni), who enthusiastically participated in activities such as team crossword, quiz (Kaun Banega Crorepati), Just-A-Minute (JAM) elocution session and Land use Layer Stacking.

Post lunch, two guest lectures were organized. Dr. C.P. Singh (Scientist-SAC, ISRO) (Guest of Honour), delivered an extremely interesting and practical session on "Remote Sensing for Biodiversity and Habitat Modelling". Ms. Pooja Shah (CEPT Geomatics alumni) shared her recent research work, in domains of Utilizing Remote sensing for in Vulnerable Areas.



On campus Placement

Ernst and Young, as the first company of this placement season came for placement to the CEPT campus. There were two sectors for which the company wanted to recruit, Water Supply and Sanitation (WSS) and Urban Infrastructure (UI). The first round of the company was the aptitude test, conducted on 9th September, Monday. Students from Faculty of Planning, Faculty of Technology and Faculty of Management were involved in the process. Of more than 150 students, only some of them got to get to the next round. On 10th September in the second round 10 students from WSS and 12 students from UI were shortlisted for interview process. Of these students, 4 were selected including Porus Patwari Jain from MCEM Sem III, FT PG.

Off campus Placement

Knight Frank offered a Pre-Placement Offer (PPO) to one of the students in FT PG, Rajdeep Singh Saluja from MCEM Sem III. He is placed as an Associate Consultant under Valuation & Advisory Consultancy Department. After the commencement of Recruitment session in the University. A Skype Call was conducted as a part of an Interview Process and following the same, he was offered a PPO on 10th September '19.

PLACEMENT STORIES

HONOURS FROM ASHRAE

Krutikaa Sharma, second year M.Tech student from Building Energy Performance program has won the First Place at student competition organised by ASHRAE Region-at-Large (RAL). The event was held during 27-29 Sep 2019 at Jordan.

She represented ASHRAE's Western India Chapter (WIC) at the event, which saw the participation of 17 students competing for the title, representing 14 global chapters of the ASHRAE region. This opportunity for representing WIC was after having formerly won amid 9 contenders from other reputed universities at the chapter level on 6 August 2019, where she had represented CEPT University.

Competition was aimed at in-depth understanding and presentation skills focussed on HVAC&R topics. The title of her presentation was Indoor Air Quality (IAQ) in Healthcare facilities, where she also explained National and International IAQ standards for healthcare facilities, especially Operation Theatres.



WORKSHOPS AND SEMINARS

GOOGLE EARTH ENGINE SUMMIT'19

The first student-only Earth Engine event hosted by Google and CSRE, IIT Bombay was held at Victor Menezes Convention Centre (VMCC), IIT Bombay on 7th September, 2019. Three students namely – Ms. Neha Sharma, Mr. Divyesh Rana and Mr. Jesal Zala from Geomatics Program (3rd semester), Faculty of technology attended this one day intensive workshop. The students worked in a group to present 'Land-use Landcover supervised classification at village level using Optical Remote Sensing Sentinel-2 data (10-20 meters spatial resolution)' on the Earth Engine cloud platform.

The event had been hosted by Ms. Devaja Shah, Program Manager, Google Earth Engine Team and the event had participation of total 60 students across various colleges of India. It was a day packed with comprehensive learning along with hands on coding too.



TREES WORKSHOP

TREES, (Trai Research In Earth Eco-systems), an exclusive two-day workshop was organized for Geomatics students of third semester of CEPT University from 19th to 20th September. The focused group workshop was put together by senior scientists Namely Dr. S.P Vyas (Head ERTD/VRG/EPISA), Dr. Shashikant Sharma and Dr. Markand Oza, as a part of the TREES (<https://www.sac.gov.in/Vyom/TREESProgram.jsp>), at Space Applications Centre (SAC) ISRO, Bopal Campus, Ahmedabad with Dr. Bindi Dave (Assistant Professor, Faculty of Technology).The theme was Artificial Intelligence in which both machine learning and deep learning were covered combined with practical sessions. Both days the students had chance to interact with scientists working at SAC, ISRO that helped in making students understand artificial intelligence functionality. On last day of workshop, the students gave their overall view about their experience.

POSTER PRESENTATION

Three undergrad students namely Harsh Vachhani, Chintan Vohra and Aagam Gopani presented a paper at IIT Madras at a CRI 5th Conference & Poster presentation on 14th September 2019.

STRUCTURAL JOURNAL

An article written by Abhinav Maloo and Dr. Parth Thaker was reported in the Structural Engineering Digest, a quarterly journal of the Indian Association of Structural Engineers. The article titled 'Structural Health Monitoring Using Geotechnical Instruments' focused on safety of key structures by classifying geotechnical instruments and monitoring.

STUDENT DRIVEN LEARNING PROGRAM

MS Excel Workshop, FT-PG Student Council organised the initiative of 'Student Driven Learning Program' for providing platform to 'Faculty of Technology' students who want to choose academics as their career option as teaching in future. The first session on 'Microsoft Excel' which was conducted on 21st September. The facilitators for this workshop were Mehreen Khan (SEM III, Geomatics Program) & Utkarsh Mathur (SEM III, BEP Program).

There were total four sessions which were planned carefully taking care of level of homogeneous mix of students starting with basic functions and gradually shifting to advance options. The workshop was summed up by showing a tool created by Utkarsh Mathur using excel.



VISIT TO URBANAAC

A visit to the precast plant, Urbanaac was planned as part of ICI chapter and the elective Precast and Prefabrication. Urbanaac infrastructure provides solutions through innovative technology to bring about new construction practices. Students were introduced to precast elements like hollow core slabs, circular slabs, prestressed beams and other inventive products. The plant machinery was an interesting part of the visit as one can understand the type of machinery that is currently being used in the construction industry.

INAUGURATION - IAStructE STUDENT CHAPTER

IAStructE is an Indian Association of Structural Engineer formed by a group of professional Structural Engineers across the country. For further details, contact: Dhaval Sheth (President, IAStructE Student Chapter, CEPT)

SAC, ISRO COMPETITION

Prof. Dipsha Shah and Aastha Shah received 1st prize in poster presentation competition organized by SAC, ISRO on the occasion of the World Environment Day 2019 celebration.



Anyone willing to contribute towards Newsletter, kindly contact:
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