



Vidya Vikas Education Trust's

Universal College of Engineering

Gujarati Linguistic Minority Institution

Accredited "B+" Grade by NAAC



The Benchmark

Issue 013: August 2019 Edition

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The Statue of Unity
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Seismic River

Concrete Cafe

Grouting Gym

Tension Tower

Gravel Garden

Canvas
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Volume Village



Department Vision

- To excel in every area of Civil Engineering, inculcate research oriented study to explore hidden talent.
- Providing Opportunity to display creativity, out of the box thinking & innovativeness, aimed at providing cutting edge technology for sustainable development.

Department Mission

- Providing qualified, motivated faculties to deliver the content using updated teaching methodology, inviting industry experts from various areas to disseminate subject knowledge in Civil Engineering.
- Motivating students to undertake the Research Oriented studies, participate in competitions at all levels, grasping new techniques and methods which can be improved on further.
- Conducting and participating in seminars, workshops and training programs with a view to make the students industry ready and improve their employability factor for global career ahead.
- To create quality professionals capable of planning, designing and analytical skills for better infrastructural development in the field of Civil Engineering.

Editor's Desk

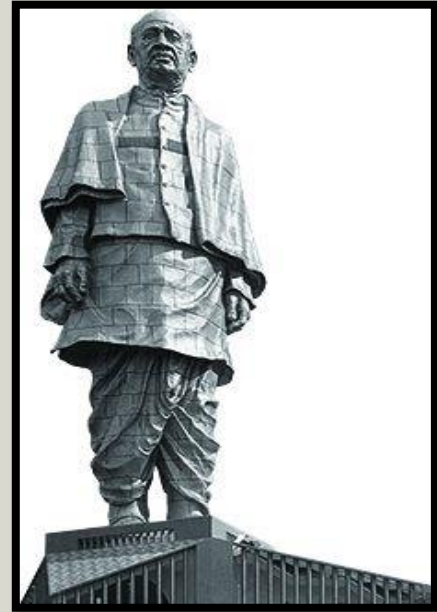
We are pleased to present the August 2019 Edition of Benchmark. This Edition consists of an article on The Statue of Unity & it also highlights activities of the Civil Department in the month of July, faculties contribution to the department and great Achievements of our department students are also listed. This edition is perfect combination of research & Achievements.

The Statue of Unity

Overview

- **The Statue of Unity** is a colossal statue of Indian statesman activist Sardar Vallabhbhai Patel (1878-1950) who was the first Home Minister of independent India. It is located in the state of Gujarat, India. It is the world's tallest Statue with a height of 182 metres. It is located on a river island facing the Sardar Sarovar Dam on River Narmada. The project was first announced in 2010 and the construction of statue started in October 2013 by Larsen and Tourbo, who received the contract for ₹2,989 crore from Government of Gujarat. It was designed by Indian sculptor Mr. Ram V. Sutar, and was inaugurated by Prime Minister Shri Narendra Modi on 31 October 2018, which is also marked as 143rd anniversary of Sardar Vallabhbhai Patel's birth.
- **History and description-**
 - 1) Shri Narendra Modi first announced the project to commemorate Sardar Vallabhbhai Patel on 7 October 2013 at a press conference to mark the beginning of his 10th year as the Chief Minister of Gujarat. At that time the project was dubbed "Gujarat's tribute to nation".
 - 2) A separate society named Sardar Vallabhbhai Patel Rashtriya Ekta Trust (SVPRET) has been formed under the Chairmanship of Chief Minister, Government of Gujarat, to ensure the execution of entire project.
 - 3) An Outreach drive named the Statue of Unity Movement was started to support the construction of the Statue. It helped collect the iron needed for the statue by asking farmers to donate their used farming instruments. By 2016, total 135 tonnes of scrap iron had been collected and about 109 tonnes of it was used to make the foundation of the statue.
 - 4) A consortium comprising Turner Construction, Michael Graves and Associates and the Meinhardt Group supervised the project. It took 57 months to complete.
 - 5) Material used for Construction were steel framing, reinforced by concrete and bronze cladding.
 - 6) The bronze panels were casted in China and they were transported over sea and then by to the workshop near the construction site.
 - 7) The statue is divided in 5 zones of which only 3 are accessible to public. The 3 levels include, an Exhibition Area, Mezzanine and Roof. Zone 1 is the museum, Zone 2 reaches upto Patel's thighs, Zone 3 extends to the viewing gallery at 153 metre, Zone 4 is the maintenance area, while the final zone comprises head and shoulders of the statue.

Photos



The statue will be able to withstand earthquakes and wind speed up to around 100 Km per second

DID YOU KNOW?

The Petronas are a tower with the World's deepest foundation

*To know more about
The Statue of Unity,
Scan the QR Code*



Page 03:- Students Achievements

Summer Internship at Yekaterinburg, Russia.

- It is always a pleasure to see Universal College of Engineering students to excel in their work. Two of the students from final year, Engineering had attended a 42 days Internship programme at Yekaterinburg, Russia between 19th June 2019 to 30th July 2019. They had undergone training under the “Ural Federal University” of Russia.
- During the Internship period Interns at Yekaterinburg, Russia were put up under Rigorous training in the domain of the interest of Interns. **Mr. Rushi Desai** worked under a project titled “Design of RCC structure for a Public Building” whereas **Mr. Kush Bhadreshwara** worked on a project titled “Design of Steel Structure of a Public Building”.
- To incorporate critical thinking and competitive skills, A 3 days event “IDEATHON” was organised by the hosting University where students had to plan and present their ideas on the assigned Projects. Our students presented an innovate idea on “Pre and post planning of Industrial Building” and it is a proud moment for Department of Civil Engineering, Universal College of Engineering that their idea was declared as best project under head of Civil Engineering in which 12 groups from different countries (France, India, Russia) had participated.

“We received immense amount of cooperation during the training period. Having finished our training, now we feel more confident about ourself and our ability to survive and thrive in the Industry. Yes it is challenging, but we are up to the task. I would like to thank “Department of Civil Engineering” of “Universal College of Engineering” for helping and being supportive throughout the time.”



Stated By **Mr. Rushi Desai** and **Mr. Kush Bhadreshwara**

Summer Internship at Larsen & Toubro.

- Yet another proud moment for Universal College of Engineering as **Mr. Aqib Sheikh** and **Ms. Vishva Patel** from final year Engineering had received an opportunity to attend a 30 days Summer Internship Programme at Larsen and Toubro. The site was located at Kopar near Thane, Mumbai.
- During the internship period the training of the interns was very meticulous as they were respectively assigned under the planning and construction managers.

The training consisted :-

- Site investigations right from excavation to assembly of superstructure.
- Study of various designs and drawings of the site.
- Revision of reinforcement design.
- Bar bending schedule.
- Preparation of daily progress report and revision of monthly progress report.

The learning atmosphere over there was very informative and this opportunity helped the students to gain more practical knowledge.

“We are deeply indebted to the Head of Department- **Mr. Rajesh Dubey** and Professor- **Mr. Yusuf Sagari** of Department of Civil Engineering, Universal College of Engineering for providing such an indispensable opportunity to broaden the perception of how it all works in the real world.”

Stated By **Mr. Aqib Sheikh** and **Ms. Vishva Patel**



Picture of the Site Location



Seminar on “Road Safety & Public Transport”

- Association of Civil Engineering Students (ACES) of Universal College of Engineering has taken up a social cause of Road Safety in young drivers. As a part of same, Seminar on “Road Safety & Public Transport” conducted by **Shubham .C. Sawant** (Joint Secretary) ACES, organized by ACES (Association of Civil Engineering Students) at **Pravin Patil Polytechnic** on **19th July 2019**. The seminar was attended by Third Year Diploma students. The session commenced at 11 am, by giving brief introduction about Road Safety & Role of public Transport in reduction of accident. Seminar started with briefing of road accident statistics of the world, country, state and city of Mumbai. Various causes of accidents and their effect was further discussed.
- The role of Civil Engineer was also discussed. Various preventive measures for reduction of accidents were discussed and how public transport would reduce accidents was highlighted at the end. Students were seemed to be highly influenced by the session. With such seminar important message is given to the young drivers expecting drastic reduction in Road Accidents. Session was further followed by Interaction with students and the session ended at 12:30pm.



Seminar conducted at Pravin Patil Polytechnic



DID YOU KNOW?

Hongkong is the city with the Highest Number of Skyscrapers. It has 308 Skyscrapers Taller than 150m.

Scratch Your Head !!

1) You are asked to install Raingauges in areas, which became inaccessible during rainy season. Which type of Gauges would you recommend :-

- ❖ Weighing Type
- ❖ Tipping Bucket Type
- ❖ Syphon Type
- ❖ None of the above

Workshop on “Technical Paper Skill”

- Research is backbone of any education institutes offering Graduation and Higher Education in any field. It is a known fact that publishing in Technical Paper is the only way to authenticate research work. Writing a Technical Paper requires set of skills to express the ideas & conclusions derived from research through words. As per curriculum designed by University of Mumbai, Students of Final Year are required to carry out a project on any domain of their interest. Students work on the projects throughout the year and are required to publish\ present their work by the end of academic year. To incorporate Technical Paper writing skills in Final Year Civil Engineering Students. Workshop on “Technical Paper Skill” conducted by **Mr. Asir Khan** (Assistant professor, Universal College of Engineering), organized by ACES



(Association of Civil Engineering Students) & IQAC in Universal College of Engineering on **26th July 2019**. The workshop was attended by 120 students. The workshop commenced at 11 am by giving students brief introduction about Technical Paper Writing Skill, some important terms were taught. Publishing research paper in a peer-reviewed journal is an important activity within the academic community. It allows the students to network with other scholars, get their name & work into circulation, & further refine the ideas & research. Getting published isn't easy, but one can improve the odds by submitting a technically & creative yet straightforward piece of research.

Points discussed during the session were:

- Students should ask for reviews of their research paper from other professor and they should go for at least 2-3 reviews.
- Revision of the paper should be based on reviewer's recommendations. Special efforts should be made to make the paper clear, engaging, & easy to follow which will increase the chances of being published
- A manuscript must be prepared according to chosen journal's requirement. Format the research paper should fit the guidelines for that publication. Session also taught that most journal provide a document called “Instruction to Authors” or “Author's Guide”. Every journal must follow an organizational format such as: Abstract; Introduction; Method; Results; Discussion; Conclusion; Acknowledgement/References.
- When the article is ready go to Author's Guide on journal's website & checkout its submission requirement. Submit the article to only one journal at a time. Work the way down the list, one at a time, as needed. While submitting online use the university email account. This connect with a scholarly institution, which will add credibility to the work
- One must not be over-attached to their original submission. Instead, remain flexible & rework the paper in light of the feedback one receives. Use the skills as a researcher & a writer to create a superior paper.

Important aspects of the workshop:

- Workshop also help make students aware, about the research already published, the current questions & studies of the field. Examples of how other research paper in their field are written: the format, the types of articles, the writing style, the subject matters, & the vocabulary, author can ask colleague or professor for a suggested reading list.
- Students were made aware by the knowledge that each publication has their own audience & tone of writing.
- Say, for instance, if the research would fit better in journals that is highly meant only for scholars, or a journal that is more general in nature for a border audience.
- The workshop was further followed by interaction with students & concluded at 2pm.

IN OTHER NEWS

SEMINAR SERIES

About the series:

- **Department of Civil Engineering, Universal College of Engineering, Kaman** is organising **"SEMINAR SERIES"** in the month of **August**.
- Each seminar would be conducted by distinguished speakers from Civil Department discussing on Practical problems, start-up ideas, technical skills and Higher Education in different fields of civil engineering. **Prof. Yusuf Sagri** is appointed as the **Seminar Co-Ordinator** of all the upcoming seminars.
- Objective of the series:
 - To make students aware of recent advancement in the field of Civil Engineering practice and research.
 - Scope of further technological advancement in different domains of Civil Engineering.
 - Introduction to various new techniques and software skills.
 - Entrepreneurship opportunities which may be useful in enriching knowledge and innovative ideas.

Seminar details:

Seminar Topic	Speaker Name
Structural Engineering	Mr. Yusuf Sagri
	Mr. Yuvraj Chavda
	Mr. Sujit Tare
	Mr. Vineet Gupta
Transportation Engineering	Mr. Nikhil Sontake
	Mr. Asir Khan
Construction Management	Ms. Chandana Kori
	Mr. Shreyans Dodia
	Mr. Sagar Butle
	Ms. Swapnali Onkar
Environmental Engineering	Mr. Swapnil Wani
	Mr. Rajesh Dubey
Geo-Technical Engineering	Ms. Shilpa Patil
	Mr. Sachin Pawar
	Mr. Naved Qureshi
Water Resources and Hydraulic Engineering	Mr. Gaurav Bharadwaj
	Ms. Mitali Poojari
	Ms. Nitin Rane

DID YOU KNOW?

Sagrada Familia- A large roman catholic church located in Barcelona, Spain. Construction started in 1882 and it is still not completed, expected to finish in 2026

Scratch Your Head !!

2) The Average Normal Size of a Rain Drop may be of the order :-

- ❖ 0.5-4mm
- ❖ 5-10mm
- ❖ 10-50mm
- ❖ None of the above

UNNAT BHARAT ABHIYAN

➤ **Unnat Bharat Abhiyan** is a flagship programme of the Ministry of Human Resource Development (MHRD), Govt. of India, with the intention to enrich Rural India. It also aims to create a vibrant relationship between the society and the higher educational institutes, which in turn upgrade the capabilities of both the public and private organisation in the society. For implementing such ambitious programme, as a Participating Institutions (PI) under technical stream through a challenge mode, **Universal College of Engineering, Kaman** has adopted five villages namely, **Kaman, Belkadi,**



Deokundi, Pachavi Pada and Tepacha Pada. In the first cycle of UBA programme for the year 2019-2020. The main goal is to understand the needs of above selected villages to explore the possibilities of customizing existing technologies or need to develop a technology as per the local needs; by preparing and implementing action plan, for selected Villages in coordination with local administration. For the same, Ideas are invited from students of all the year to contribute in the projects related to rural development, students of Final Year can also contribute through their project work dedicated to any benefits to the above mentioned villages.

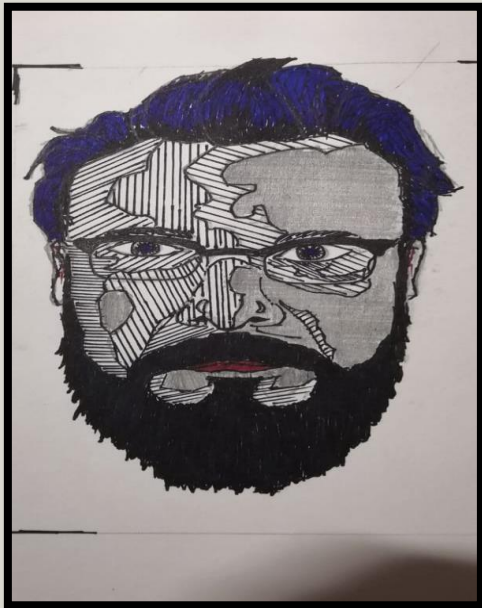
STTP/Workshop Attended by Faculty and Students

DATE	Name of Faculty and Students	STTP / Workshop	VENUE
18-23 rd July 2019	Mr.Swapnil Wani	STTP on Disaster Management and Mitigation Measures.	Datta Meghe College of Engineering, Airoli.
30 th July 2019	Mr.Swapnil Wani and Student- Mr.Shubham Upadhayay.	Avishkar Research Convention 2019-20	Shan & Anchor Kutchi Engineering College, Chembur.

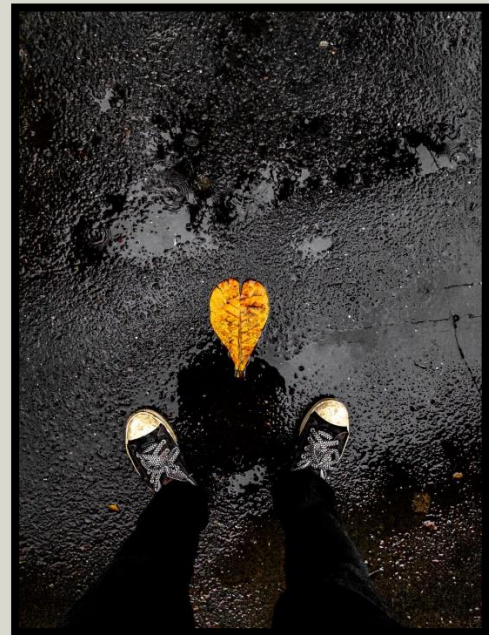
Upcoming Events :-

- ❖ Seminar on Career Guidance for T.E. Students.
- ❖ Road Safety Awareness at B.V.Polytechnic College.
- ❖ Road Safety Awareness at Thakur College of Engineering.
- ❖ Workshop on Concrete Mix Designs.

CANVAS AND PHOTOGRAPHY



- Prathamesh Mundy
B.E. Civil



- Sanket More
S. E. Civil



- By Vighnesh Pandit B. E. Civil

ANSWERS

- 1) Tipping Bucket Type
- 2) 0.5-4mm