

Vidya Vikas Education Trust's Universal College Of Engineering Kaman, Vasai - 401 212 Department of Civil Engineering



The Benchmar

Issue 001: August 2018 Edition

ACES InExCon

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Department Vision

To excel in every area of Civil Engineering and 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.

Words of Wisdom

From Campus Director

It gives me immense pleasure to present "*The Benchmark*", an innovative newsletter of Department of Civil Engineering. The Department is always in the forefront of all activities, be it technical, non-technical, sports, cultural or educational events. The continuous motivation from faculties & support from the institute has resulted in an unending list of achievements by all concerned. I wish them all success in their future endeavors.

From Principal

It gives me immense pleasure, to release the introductory issue of "*The Benchmark*" by Department of Civil Engineering; wherein the panoramic view of the complete department can be discovered. I would like to congratulate the department for introducing their newly established Students' Chapter associated with Institute of Engineers, India (IEI) along with their Newsletter.

From Head of the Department

At the outset, I am elated in presenting the Department Newsletter, "*The Benchmark*". The basic purpose, of this newsletter is to strengthen the fabric of mutual cooperation & support as well as spread awareness amongst all. It will also help in disseminating technical knowledge through technical articles. I am hopeful that this Newsletter will bring in a revolutionary change in the aptitude & attitude towards Civil Engineering.

It is a proud moment for the Department of Civil Engineering to have this opportunity to publish a Departmental Newsletter, "The Benchmark". The ACES committee & Editors striving to create this Newsletter have a vision to get all the students of Civil Engineering involved in various activities. The Newsletter comprises of four sections. Section 01 "Words of Wisdom" that is meant to enlighten the reader with certain important messages from the dignitaries of our Campus. "Drishti" is the section that is meant to impart technical knowledge to the reader about the currently occurring events or latest advances in the field of Civil Engineering. "Page 03" is the section of the Newsletter which not only updates the reader about certain activities that have occurred, but also informs the reader about the upcoming events in the Department. "Altitude", the last one, recognizes and acknowledges those individuals or groups who have strived hard & succeeded in the technical sphere of Civil Engineering.

-From Editor's Desk

Drishti

Energy & Climate Change

-by Mr. Rajesh Dubey

About the Author: Author has pursued his Graduation in Civil and Masters Engineering with Specialization ín Environmental Engineering. He has wide experience of 18 years and currently serving as Head of Civil Engineering Department, UCOE, Kaman.

Rapid increase in energy demand globally is observed with time. Developed nations are using more energy per capita. Alone energy demand in USA is six times that of India. As on today total energy usage of all the nation is around 500 exa joule (500 x 10^{18} joule) per annum. India is a rapidly growing economy which needs energy to meet its growth objectives in a sustainable manner. The Indian economy faces significant challenges in terms of meeting its energy needs in the coming decade. The increasing energy requirements coupled with a slower than expected increase in domestic fuel production has meant that the extent of imports in energy mix is growing rapidly. India is among the top five Green-house-gas (GHG) emitters globally.

India has a population of over 1.21 billion (2011 census) with 70% of total population living in rural areas. These people reside in rural areas and are still dependent on non-commercial energy sources, such as fuel wood, crop residue, and animal waste for their energy needs. Furthermore, about 80% of the population - which includes 28% of urban inhabitants - still relies on combustion of biomass fuels for cooking activities. The use of biomass for cooking also contributes to the indoor air pollution phenomenon, which caused 488.200 deaths in 2004. As the population is increasing and number of vehicles is increasing, the energy demand will go on increasing. In air there is 78% N, 20% O, 1% Argon and 0.04 % Carbon. The amount of CO2 emission is also increasing due to need of more energy. With the current rate of utilization of energy, it is estimated that the carbon content shall double in atmosphere within next 86 years.

Although India is increasing dependent on commercial fuels, a sizeable quantum of energy requirements (40% of total energy requirement), especially in the rural household sector, is met by noncommercial energy sources, which include fuel wood, crop residue, and animal waste, including human and draught animal power. However, other forms of commercial energy of a much higher quality and efficiency are steadily replacing the traditional energy resources being consumed in the rural sector. This enhances the chances of deforestation.

Forests are major carbon sink absorbing CO2 from the atmosphere. However, forests are reducing due to rampant deforestation for infrastructure development. With current rate of deforestation, doubling period of Carbon content is reduced from 86 years to 46 years. If CO2 emissions are double it may still be lower to almost 29 years considering a FOS of 3. This shall directly affect global warming. Due to global warming glaciers are melting and ice cover is reducing. It is high time we move to some clean energy resources so that CO2 emission will be less otherwise we will have to face very severe climate change. At some locations it will be drought like situation while at other locations it will be severe flooding. Mumbai has recently seen the heavy rainfall in 9 to 11 July and we are all aware of the current situation in Kerala. Kerala has broken the record of past 100 years of rainfall this year and situation is attributed to heavy deforestation. It is alarming situation for all of us to protect our environment and find some non-conventional sources of energy that will be clean in terms of CO2 emission otherwise coming generation will have to face more aggressive nature.









Real Time Structural Health Monitoring System

-by Mr. Yuvraj Chavda

About the Author: Author has pursued his Graduation in Civil Engineering and Masters with Specialization in Structural Engineering. He is currently working on Project titled "Indigenous Real-time data acquisition system for Structural Health monitoring" in association with IIT Bombay.



The biggest challenge face by civil engineers is to predict the time and nature of failure of a structure. And to predict this Effective monitoring, reliable data analysis, rational data interpretation and correct decision making are required to assess the structure's health condition. Such type of real-time, quantitative data analysis significantly enhances structural safety operations and also provide valuable information for conducting timely maintenance and repair to those areas of the structure which needs it most, so that lifespan of the structure can be extended. In present study, the sensor-based system called Real Time Sensor Based Monitoring (RTSBM) for health monitoring of bridge model is briefly reviewed. The health monitoring system was developed to be a reliable device to observe the bridge health in operating condition accurately. RTSBM system effectively determining displacement and stress concentration at any point and vibrations induced in structure due to wind or moving entities by continuous monitoring and analyzing data set received from sensors.

- The sensor base RTSBM system offers the following benefits:
- 1) The systems require very low input power supply which can be inexpensive in remote locations.
- 2) The systems measure the important variables such as strain and stress and vibrations etc.
- 3) The system is flexible to transmit sensor data log to any location on a real-time basis.

Introduction: The static and dynamic response against moving load are subjected to unknown factors those are uneasy to predict. Therefore, it is necessary to establish a monitoring system that can collect data on static and dynamic response of the structure in order to verify the assumptions and constant used for the design due to moving load, wind and earthquake. The traffic load and wind load for long-span bridges has great importance in their structural design. It usually consists of stresses induced in structure and the dynamic response due to the moving traffic load and wind fluctuation, but there still remain uncertainties in expression of traffic and wind characteristics to define the accurate and reliable response of the structure. To overcome this, it will be important to collect data of the traffic and wind at bridge site. Here, as the example of monitoring results, the stresses induced in material, maximum bending moment, pylon reaction, vibrations and deformation characteristics of the bridge response due to traffic load are explained.

Current Monitoring System: To develop a reliable health monitoring system that has a self-check function to monitor disorder of the system itself.

- Design verification:
- To provide data for developing a better further design in a more rational way.
- To provide data on Static & Dynamic response of structure to verify design assumptions used for the strong wind, earthquake and characteristics load.
- Structural maintenance:
- To provide data for analyzing and evaluating the health behavior of the structure.
- To provide data for assessing structural deterioration and performance degradation.
- Traffic management:
- To provide data to adjust level of safety traffic control due to earthquake or strong wind.
- To provide data for assessing post-earthquake or posttyphoon structural reliability to manage traffic flow.

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Design Monitoring Items

Item	Installation	Parameter
Strain Gauge	A two-strain gauge is installed at mid- span of the bridge with Half Bridge configuration	Strain, Stress, Bending Moment and Shear Force
Accelerometer	A three-component accelerometer was installed at the mid-span of the bridge.	Acceleration, Displacement

Sensor Configuration: Figure shows sensor configuration of bridge in which following devices were installed.

- Strain Gauge: To assess the bridge characteristics with moving load such as stress, strain, bending moment and shear force, a two-strain gauge is installed at the mid-span of the bridge.
- Accelerometer: To assess the real dynamic structural behavior due to vehicular or wind load, a three-component (x-y-z) accelerometer was installed at the mid-span of the bridge.

Data Monitoring Application

• For the data monitoring of model new application is developed using LabVIEW software. LabVIEW is a 'C' language based programme comprises of drag and drop method for application development.

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Screenshots of user selection of real-time data display and resulting interface to view

Conclusion:

- New innovative technologies to monitor peak displacement and true-stress are proposed. Furthermore, a real time monitoring system with a digital network to acquire, process, store and transmit the measured data is discussed.
- The proposed real time monitoring system provides valuable information for directing timely maintenance relief to those areas of the structure most in need of repair, so the following items can be achieved:
- Planned repair or replacement of the structure before catastrophic collapse.
- Improved allocation of scarce maintenance funding for the highest risk structure member.
- Determination of structural health after catastrophic events, such as, earthquake and/or typhoon



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Academic Activities

The editors wish to highlight the activities carried out by the department of Civil Engineering, UCOE in the recent past. To list them, they are as follows.

It is very important for Engineers to possess sufficient knowledge to lead projects smartly and successfully. However, without practical knowledge, it is not truly effective as in Engineering fields. Also practical work and experience have always preceded theory. Universal College of Engineering, Kaman has always strived to provide practical knowledge and exposure along with quality academic knowledge. In the lieu of it, some noteworthy Industrial Visits and On-Field Projects were planned by the Department of Civil Engineering.

Surveying is one of the most practical oriented subject of Civil Engineering which is included in the initial year of the course. To gain some practical perspective of this subject, Students of Second year Civil Engineering have performed an on-field "<u>Survey Project</u>" from $13^{th} - 19^{th}$ March near Monterio Resort, Khopoli. Under this project, exposure was made to *Profile Leveling, Block Contouring & Radial Contouring* using various Surveying Instruments. And as part of Mumbai University Curriculum, they also acquired a handson experience in using modern equipment such as *Total Station*.

Water Supply Engineering is that field of Civil Engineering which deals with the daily supply of potable water to the habiting population of a town/city. This field is covered under the subject, Environmental Engineering, and for further practical knowledge on water treatment process, students of Third year Civil Engineering visited "<u>Shahad Temghar Water Treatment Plant</u>" which pumps about 285 Million Liters each day serving a population of about 5 million people in Thane City. The various water purification processes at the plant include, *Flash Mixing of Coagulants, Clari-flocculation, Slow Sand Filtration, Chlorination, and Testing Laboratories*.

The knowledge of the upcoming projects within the city is of utmost importance for students who are soon to work as professional engineers. In lieu of this, Visit for final year students was arranged at "<u>MCGM Water Tunnel Project</u>" located at Powai which is part of 4th Stage of Augmentation by Municipal Corporation of Greater Mumbai (MCGM). The project aims to strengthen the existing capacity of Water Supply Network in Greater Mumbai

"Engineers like to solve problems. If there are no problems handily available, they will create their own problems."

"A SCIENTIST CAN DISCOVER A NEW STAR BUT HE CANNOT MAKE ONE,HE WOULD HAVE TO ASK AN ENGINEER TO DO IT FOR HIM

problems.

Internships

To further bridge the gap between theoretical knowledge and practical knowhow, Department follows good practice of arranging 5 to 6 weeks long internship programs after the summer examination. Internships were arranged to cover various branches of Civil Engineering such as Construction work, consultancy, execution, planning and research. Some of Internship Partners are S.V. National Institute of Technology, Parshvanath Infra ltd. GPRS Realty, JCV Consultants, SKAF Constructions, Tecnimont, Sashwat Constructions, Vinayak Constructions, Shreeji Constructions, Moksha Constructions, Glasswood Realty, Niyash Consultants, SS Home Décor, Nishit Floortech, West Best Buildcon, BJ Mehta Consultants, Sahaj Developers, Laabh Group, Gaurav Constructions, Vishwa Enterprises, Wheel Buildwell, Om Sai Charan Builders, PANACEA, ESSDEE Infra, Dhanraj Constructions, AH Infra, Hetal Civil Works, Ajay Mahale Consultants.

Association with IEI

The Institution of Engineers (India) [IEI] is a statutory body to promote and advance the engineering and technology, established in 1920 and incorporated by Royal Charter in 1935. It is the largest multi-disciplinary professional body of engineers encompassing 15 (fifteen) engineering disciplines with a membership of more than 820 thousand, and serving the nation for more than 9 decades. The IEI has its headquarters located in Kolkata with national presence through more than hundred Centres and several Overseas Chapters, Foras and Organ. The Department of Civil Engineering is proud to now have its Student Chapter body, *Association of Civil Engineering Students (ACES)* in affiliation with *Institution of Engineers*, *India* (IEI).

A few of the benefits of being an IEI member includes:

- Opportunities to undertake various training programs at Engineering Staff College of India (ESCI), Hyderabad, through Continual Professional Development (CPD)
- Availability of an open platform to share your expertise, develop your knowledge and contacts and broaden your career and professional horizons by involving with IEI.
- Facilities to use rich collections of the IEI library networks at any part of the country.
- Chance to attend National & International Seminars, workshops conducted by IEI in different parts
 of the country at a concessional rate.
- Access to various Technical Publications such as Springer Journal and other in-house Publication platforms such as IEI News, IEI Epitome, etc.

न चोर हार्यं न च राज हार्यं

न भात्रू भाज्यं न च भारकारि 📗

व्ययं कृते वर्धत एव नित्यं |

विद्याधनं सर्वधनप्रधानम ||

Education is the best wealth among all. No one can steal it, no state can snatch it. It cannot be divided among the brothers and it is not heavy to carry. As one consumes or spend, it increases; as one shared, it expands.

Upcoming Events

- The Department of Civil Engineering hosts and actively participates in the inter-disciplinary technical competitions, 'Tantrotsav' where our students take part in various technical events and in good spirit and challenge each other in innovation & design. Our vision is to improve the technical skills of students & develop their competence. Our mission is to engage students in various competitions to meet-up the IIT levels, and to develop analytical thinking, leadership qualities & competitive ethics. Tantrotsav 2018 will be held on 6th October, 2018.
- The Civil Engineering Department believes that impartment of knowledge from experts working in the practical world is an important aspect in the overall learning curve of a student. Hence a number of *Seminars by various stalwarts from industry and academia* will be conducted in the month of October.
- The Department of Civil Engineering has planned a **Traffic Survey** and visit to **Sewage Treatment Plant** in month of October for Final Year students. Also a visit to **Water Treatment Plant** is planned for Third Year students.

Social Activities

There's a lot of good that's done for society in building businesses, but it's also great to be involved in those things where you can be connected to the community, to the world, and think about how you can use what you are creating, both in terms of your personal skills as well as your products or services to do good things for others.

Our Students and Faculty Members are also connected to various NGOs and work with them for the betterment of our community & society.

Name of NGO	Name of Faulty / Student	Work under NGO
U&I	Mr. Venkatesh R. Mr. Sagar Butle	Teach Unprivileged Children – Basic English & Maths Provide Info. about various job opportunities
MAD (Make A Difference)	Mr. Venkatesh R.	Provide Basic Teaching, Financial Support & Job Opportunities to Children of Prostitutes
Giants Group of Kalyan Metro	Mr. Sudarshan Ashan	Involved in Large Spectrum of Social Activities. Recently, actively involved in 'Beti Bachao Beti Padhao' Project, whereby 34 girl students were adopted for their Academic needs Also in the month of May, started vocational courses in 2 adivasi schools in Murbad-Valivarhe Village
AFS Intercultural Programs	Mr. Rudra Chauhan	Provide Various Exchange Program Opportunities Provide Counseling & Support for Exchange Students who come to India for various programs

Altitude

Faculty Achievements

It is always prestigious for any Institution to have its students perform and excel in research & on-field work, but it is also a moment of pride to have their faculties do the same. Hereby we present and acknowledge them for their great feat.

Mr. Yuvraj Chavda had been working with **IIT Bombay** on their ongoing project titled "Indigenous Real-time data acquisition system for Structural Health monitoring" for the last 3 months. He has successfully completed Stage One which includes Development of LabVIEW program for analyzing data of Guided Wave Propagation for health monitoring of Composite Structures.

Mr. Asir Khan had submitted his technical paper titled, "<u>A New Approach for the Calibration of Microscopic</u> <u>Simulation Model for Roundabout Capacity in a Mixed Traffic</u> <u>Scenario</u>", for presentation at the *Transportation Research Board 2018 Annual Meeting*. The Transportation Research Board (TRB), a program unit of the National Academy of Sciences, Engineering and Medicine, provides innovative, research-based solutions to improve transportation. We are proud to say that his paper was selected for presentation for *TRB's 97th Annual Meeting* which was held at Washington DC, USA, from 7th – 11th January, 2018.

Students Achievements

It is always an Institute's shining moment when their students excel in technical & professional events and workspace environment on-field, and it is also something that any Institute ideally strives for. To list down them, Mr. Ninad S. Kanekar & Mr. Mayur Y. Chauhan, from BE, had represented our College in *a 45-days Undergraduate Fellowship program* at Ural Federal University in Yekaterinburg, Russia. Under this, they worked upon their project titled, "Treatment of Sludge of Acid Pickling Wastewater", for which they won the Best Project award in Civil Engineering Department.

It is easy to give an example, but it is difficult to become AN EXAMPLE!

Mr Asir Khan had also submitted another technical paper littled, "Effect of Two-wheeler proportion on Passenger car units at roundabout in Indian Urban Scenario", and was selected for Oral Presentation at 3^{rd} Conference of Recent Advances in Traffic Engineering (RATE 2018) held on 11^{th} & 12^{th} August, 2018 at SVNIT, Surat.

Apart from above, Mr. Rajesh Dubey, Mr. Sudarshan Ashan and Mr. Asir Khan have contributed for designing the curriculum for choice-based grading system. Mr. Sudarshan Ashan and Mr. Asir Khan delivered an expert lecture in training program arranged for the faculties of University of Mumbai by VIVA Institute of Technology, Virar. Department also motivates faculties to attend various development programs and orientation programs at different locations. To name few, Ms. Shilpa Patil, Mr. Vinit Gupta, Mr. Naved Qureshi have attended Orientation Programs for the new curriculum organized by University of Mumbai and hosted by different Institutes across Mumbai. Mr. Asir Khan had also attended a 5 days training program on Road Safety Issues organized by HRD Government of India Hosted by S.V.N.I.T Surat.

Mr. Miraj Thaker, from TE, has been appointed as the *IIT Campus Ambassador*, by IIT Kharagpur. He will be the link between the College and IITs and is the go-to person for all the workshops and events associated with IIT.

Further, students of Civil Engineering Department have also represented the department at many technical competitions hosted by various IITs and have emerged victorious. Here are some of those events along with the name of students who made it possible. Department congratulates them and wishes them luck for similar competitions.



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S. No.	IIT	Event	Date	Competition	Ranks	Students			
1.	IIT Gandhinagar	Amalthea	4 th – 5 th November 2017	Seismism	Winners	Sakshi Singh Pritesh Mewada Prathamesh Mundye Aqib Shaikh			
2.	IIT Bombay	Techfest	29 th December 2017	Crane-o-mania	Winners	Sakshi Singh Pritesh Mewada Prathamesh Mundye Aqib Shaikh			
3.	IIT Hyderabad	Elan n Vision	9 th – 11 th February 2018	Bridge Builders	Winners O	Ravi Kanojiya Darshan Mange Nayan Chavda Dhruval Suriya			
		Tashnay	16 th – 18 th	Greenx	Winners	Sakshi Singh Pritesh Mewada Prathamesh Mundye Aqib Shaikh			
4.		Technex	February 2018		1 st Runner up	Prathamesh Mundye Agib Shaikh			
		19		Bridge IT	2 nd Runner up	Sakshi Singh Pritesh Mewada			
	IIT Kharagpur Meg	Megalith		9 th – 11 th	Criar	1 st Runner up	Soham Malik Anup Shelar Nishant rao Abhishek Dhanavade Saurabh Yele		
5.			March 2018	Model Exhibition	2 nd Runner up	Soham Malik Anup Shelar Nishant rao Abhishek Dhanavade Saurah Yele			
	IIT Bombay Aal	IIT Bombay Aakar ^{17th – 18th March 2018}		Seismism	2 nd Runner up	Soham Malik Anup Shelar Nishant rao Abhishek Dhanavade Saurabh Yele			
			ıbay Aakar $17^{th} - 18^{th}$ Conque				Bridge It	2 nd Runner up	Ravi Kanojiya Darshan Mange Nayan Chavda Dhruval Suriya
6.				Conquer It	1 st Runner up	Miraj Thaker Ankit Mishra Hitesh Rawal Manish Thakre			
				Poster Presentation	2 nd Runner up	Vijay Jamariya			
				ICES	Research Selected	Vijay Jamariya Dhaval Panchal			
			Cenex	Winners	Miraj Thaker Dilesh Solanki Dhruval Surya Pranay Tawale				
					2 nd Runner up	Vijay Jamariya			
7.	IIT Kanpur Techkriti 15 th – 18 March	15 th – 18 th	Bridge Design	Winners	Jatin Bhuta Vidhi Soni Raj Patel Foram Panchal Sureil Gupte				
			March	Challenge	1 st Runner up	Rudra Chauhan Vatsal Shah Yash Patil Kanan Agarwal			

Students of Civil Engineering Department have also been successful in grabbing a chance for serving the students community at college level by representing students through the association and are playing various important roles as listed below. Department wishes them all the best for the journey.

Name	Class	Post
Mr. Sarish Kandalgaonkar	BE Civil A	General Secretary
Mr. Aanit Shah	BE Civil A	Joint General Secretary
Mr. Ninad Kanekar	BE Civil A	Academic Head
Mr. Shantanu Pawar	BE Civil A	Sports Secretary
Ms. Priyanka Said	TE Civil A	Joint Sports Secretary
Mr. Gaurav Israni	BE Civil A	Logistics Head
Mr. Pritesh Mewada	BE Civil A	Technical Head
Ms. Sakshi Singh	BE Civil A	Lady Representative
Mr. Abhinay Asara	BE Civil A	Joint Cultural Head
Mr. Rohit Mangle	BE Civil A	Discipline Head
Ms. Sayani Paul	TE Civil A	Discipline Head

<u>Sports</u>

It has been forgotten that academic learning and sports education complement each other. They resemble the two sides of the same coin. If sports education is carried out accompanied with the academic curriculum, the overall personality of the student is increased to quite an extent. The qualities of the leadership, sharing, team spirit and tolerance are learnt from sports. Hence to have a holistic development of student's, department motivates and provides guidance and coaching in sports as and when required. Along with winning the Sports Shield in Inter-Disciplinary Sports Competition "Aurora" at the campus, students have also shown excellence in Intercollege competitions as well. List of achievers in sports and name of events are listed below.







S				11.
No.	Sports	College/Competition	Ranks	Students
	. Cricket (Boys)	Mumbai University (Zone 5)	Quarter Finals	Amit Bharti Pravin Ahire Karan Waghela Harish Prajapati Mohit Shah
1.		Rajiv Gandhi Institute of Technology (Zodiac)	Quarter Finals	Amit Bharti Pravin Ahire Karan Waghela Harish Prajapati Mohit Shah
2.	Kabaddi (Boys)	Atharva College of Engineering	Gold	Akash Jadhav Rohit Mangle Pushkar Bharambe
3	3. Kabaddi (Girls)	Atharva College of Engineering	Gold	Bhairavi Chaughule Priyanka Said Sanchita Gaonkar
5.		Institute of Chemical Technology	Silver	Bhairavi Chaughule Priyanka Said Sanchita Gaonkar

Cultural Activities

Every year Mumbai University organizes Cultural Festival called Youth Festival. It was 51st Youth Festival organized by Mumbai University where our Students participated in various events. The students are judged by experts and are qualified to the next level based on their performance. Following students represented for the following events:

Name	Event	
Mr. Niraj P. Kholakia	One – Act Hindi	
Mr. Varad U. Gadgil	One – Act Marathi & Monoacting	
Ms. Sureil P. Gupte	Indian Classical Vocal Solo Indian Light Vocal Solo Indian Classical Dance	
Ms. Anushree V. Karalkar	Indian Classical Instrument Solo Taalvadya	
Mr. Pranay N. Chudasana	Mime	

RANKERS

SE CIVIL

Chauhan Bhavin Ratibhai	Parmar Parth Praful	Kanojiya Ravi Ramashray	
CGPI – 8.62	CGPI – 8.58	CGPI – 8.38	
1st Ranker	2nd Ranker	3rd Ranker	
	TE CIVIL		
Kanekar Ninad Subhash	Chitroda Karan Nandlal	Mewada Pritesh Jagdish	
CGPI - 8.94	CGPI - 8.62	CGPI — 8.25	
1st Ranker	2nð Ranker	3rð Ranker	

Students have strived hard to score high and stand above the average, being an ideal example of Perseverance & Excellence, the Department of Civil Engineering is proud to acknowledge our final year students for setting up *"The Benchmark"* for the upcoming campus generations. We hereby congratulate them and wish all the success for their future endeavors.

"Every End is a New Beginning.....!!!!!!"



Jamariya Vijay Narshi Rajiben OGPI-9.46

1st Ranker

Rao Nishant Divakar Malati CGPI – 9.04

2nd Ranker

Hadpad Vitthal Suresh Mahananda CGPI – 8.88

3rð Ranker

ACES InExCon in association with IEI:





Here we.... "In-itiate, Ex-ecute & Con-tribute"

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Hey Friends, Share your Experiences, Suggestions & Ideas with us....

Write us at thebenchmark.aces@universal.edu.in