



Shri Vile Parle Kelavani Mandal's
Shri Bhagubhai Mafatlal Polytechnic
Irla, N.R.G marg , opp to Copper Hospital, Vile Parle [W] Mumbai-400056, India



स्थापत्य
2022



**CIVIL
ENGINEERING**

**"The Road to Success is under
Construction"**

E-NEWSLETTER

SBMP ANTHEM

आ..... आ..... आ.....
महाराष्ट्र की धरोहर का , गौरव SBMP ,
ज्ञानसागर की उमड़ती, लहर है SBMP
SBMP.... SBMP.... SBMP....

SVKM का छत्र धरे, बने सारथी तंत्र के,
इंद्रधनुष के रंग में रंगे, हुए पारखी यंत्र के,
योगः कर्मसु कौशलम्, मंत्र मन में धरे,
असतो मा सदगमय के, राह पर हम चले,
SBMP... SBMP... SBMP....

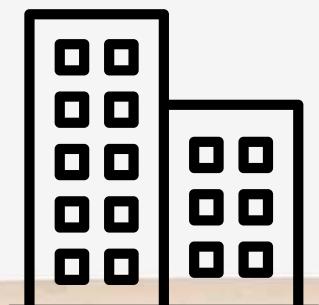
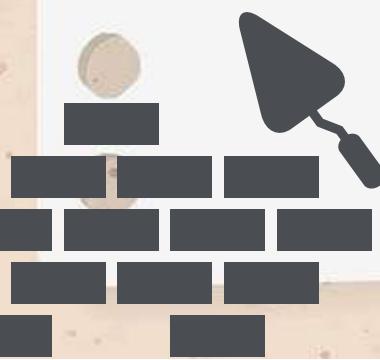
प्रकाश की परिभाषा, और ज्ञान की अभिलाषा,
जगाए मन में कुछ नया सीखने की जिज्ञासा,
हो चाहे गुरुकुल कोई, या नालंदा तक्षशिला,
हर रूप का प्रतिरूप ये, शिक्षा की आधारशिला,
SBMP.... SBMP... SBMP....

जाते हुए कल से सीखी, आते हुए कल की कहानी,
विविध राग से सजती सफलता की कई जुबानी,
निराशाओं को तोड़ती, आशाओं की संजीवनी,
गंगोत्री माँ भारती, यश कीर्ति मनपावनी,
SBMP... SBMP... SBMP....

महाराष्ट्र की धरोहर की, यशगाथा SBMP
बूँद बूँद से सागर सम, परिवार है SBMP
SBMP... SBMP.... SBMP.... SBMP

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Editorial Team

STAFF

Dr.
Vinod. B.
Vanvari

Ms.
Supriya
Patil

Ms.
Neelam
Petkar

STUDENTS

Payu
Mane
(Sem II)

Nirav
Vakharia
(Sem II)

Yashraj
Doshi
(Sem II)

Raj
Patel
(Sem IV)

About SBMP

S.B.M. Polytechnic has created a name for itself by maintaining high standard of discipline and performance. The Polytechnic believes in organising need-based programmes and assisting in-service personnel in education and training activities. The Polytechnic has developed Sandwich Programmes and has diversified its conventional programmes initiated in 1963 into variety of discipline areas as First Level as well as Post-Diploma Level along with in-service programmes. The Polytechnic is a grant-in-aid autonomous institution affiliated to the Maharashtra State Board of Technical Education. The Polytechnic is being managed by the duly constituted Managing Council.

Objectives

Over the years, objectives of S.B.M.P. have been to initiate, develop and conduct need-based programmes so as to develop Technical, Managerial and Entrepreneurial skills.

S.B.M. Polytechnic aims at upgrading and updating qualification skills and knowledge of technicians already working in the industry through Continuing Education Programmes and Part Time Diploma Programmes. S.B.M.Polytechnic `s mission is to establish and provide a comprehensive, full equipped training facility in advance technological fields and to cater to industry needs of specialized skills in the emerging high-tech areas

For achieving these, SBMP strives to

- (a) Develop better approach, skills and attitude to work**
- (b) Bridge Theory-Practice gap and stress on Application and Utility of Programmes.**
- (c) Ensure participating and association of Faculty through Staff Development Activities.**
- (d) Promote Institute Industry Interaction for mutual help**

About Civil Department

The diploma course in civil engineering covers materials of construction, use of surveying and levelling instruments, civil engineering drawing, methods of construction as applied to buildings, roads, bridges, public Health engineering, Quality Surveying and Estimation and entrepreneurship. the student is also provided with adequate background in designing of structures and in project management. civil engineering technician can take up supervision



VISION MISSION

Department of Civil Engineering

VISION

To deliver excellence in learning to diploma graduates of civil engineering for socio economic development of the nation.

MISSION

- 1. Offer the teaching- learning process with practical oriented approach**
- 2. Impart entrepreneurial qualities, soft skills and promote lifelong learning**
- 3. Facilitate for development of group dynamics and socioeconomic behaviour**

Programme Specific Outcomes(PSOs)

- 1. To be able to supervise different civil engineering works by interpreting different designs and drawings related to civil engineering.**
- 2. To be able to carry out survey, estimation and valuation of various projects**

Programme Educationnal Objectives(PEOs)

Diploma graduates of civil engineering programme shall:

- 1. Solve various civil engineering problems effectively**
- 2. Contemplate on competency, quality and safety for socio technical development**
- 3. Adopt modern and recent ideas to blend multidisciplinary work environment**



Message From Head Of Department

Civil engineering department is attempting to play the role of the growth engine of this vibrant Polytechnic in line with which the beloved PM's Mantra of "Reform, Perform, Transform" under the guidance of Management, DTE, regulatory authorities both at state and centre. The systems of designing and delivery teaching learning process are in reformation. This gives immense opportunities to both students and faculty to participate and upgrade their knowledge and skills.

I take this opportunity to appreciate the entire editorial department staff for their participations in various activities and event in keeping up with the good name of the institute. I hereby also appreciate the students to make this happen to mention in specific Blood Donation camp on 18th October 2022 .

**Prof. (Dr.) Vinod Vanvari,
Head, Civil Engineering Department**

Shri Bhagubhai Mafatlal Polytecnic

Staff Members



**Dr.Vinod. B. Vanvari
(HOD)**



**Atulya Singh
(Lecturer)**



**Sandeep Ranshur
(Lecturer)**



**Yaxika Soni
(Lecturer)**



**Supriya Patil
(Lecturer)**



**Neelam Petkar
(Lecturer)**

Batch of 2021-2022

VI sem civil class



IV sem civil class



II sem civil class



Events Organised By Civil students

On special occasion of women's day civil students arranged special section for all women's in collage for their safety awarness

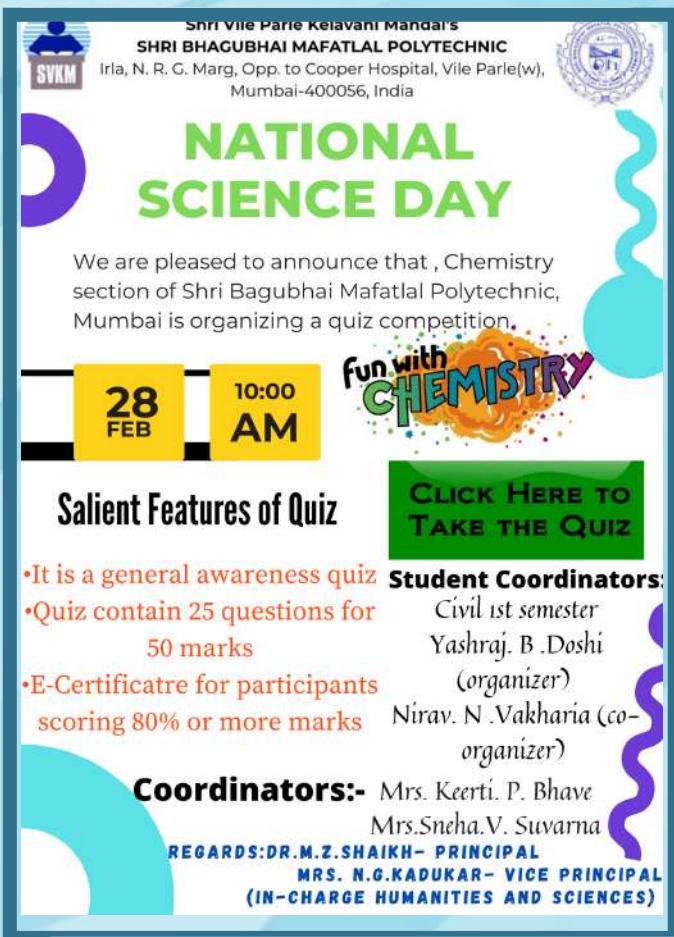


- **Woman's Day Celebration with Juhu Police – Nirabhaya Pathak.**
Suggested and successfully organized "**Lecture on Self Defense Tips and Tricks by Nirbhaya Pathak, Mumbai Police**" on eve of "**Woman's Day**" on **8th March 2022** under Guidance of Principal Dr. Mohmad Zafar Sheikhji, Vice Principal Mrs. Neeta Kadukar and Mr. Prasad Dhuri. **Yashraj.B.Doshi, CR of civil sem 2 ,batch 2021-22** handled entire Program that is to begin with conceptualization of Program, finding suitable resources, having meeting with **Senior Police Inspector** of Juhu Police Station **Mr. Sudhakar Shirsat** requesting them to assist in Program.



- **Assistant Police Inspector Mrs. Poonam Mirghane** with her Police Team of 4 persons gave awarness lectures about various Tips and Tricks on Women Safety under Nirbhaya Mission by Maharashtra Police.

Event Organized by Civil Students



On 28th February, National Science day activity was **organized by student co ordinator Yashraj. B. Doshi CR and Nirav. N. Vakharia of civil sem II , 2021-22** under the guidance of science professor

Mrs. Keerti Bhave and Mrs. Sneha Suvarna.

These students designed the sheets, poster, certificate and circulated in groups .

Certificate of the participants



Blood Donation Camp



Shri Vile Parle Kelvani Mandal's
Shri Bhagubhai Mafatlal Polytechnic



**DONATE
BLOOD &
SAVE LIVES**



Scan for registration



Donating blood can make a big difference to those in need.

DATE: 18TH October 2022, Tuesday
Timing: 9:30Am to 2:30Pm
Venue: Girls Common Room 4th floor, SBMP

Advisory Members- Dr. M.Z. Shaikh
Mrs. Neeta Kadukar

Principal Coordinate- Dr. Vinod Vanvari

Coordinators-Mrs. Supriya Patil
Ms. Neelam Petkar

Blood Donation Camp



On the 18th of October 2022 SHRI BHAGUBHAI MAFATLAL POLYTECHNIC's CIVIL ENGINEERING DEPARTMENT Had organised a blood donation camp with the help of TATA MEMORIAL HOSPITAL, Mumbai.

The preparation for this campaign started month's before the actual event. Students from the civil department and pass out from civil department also help to organise this event. There were 20 Students who Volunteered for this Camp under the supervision of Dr. Vinod Vanvari (HCED), Mrs. Supriya Patil and Ms. Neelam Petkar. After the team was recruited we divided them into much smaller groups so that the work would be much more easier. The funding team started arranging the funds for the campaign. The marketing team researched about how they could get more responses and get more donors. Our Head of Department Dr.Vinod Vanvari helped us through this process he encouraged us to bring in more volunteers from other departments too and showed us the importance of blood donation and how we can help others by donating blood. A week before the camp the volunteers started hanging the posters for the campaign in every corner of the college campus.The volunteers started arranging the materials for the camp such as the chair, beds, extension boards, food and water for the donors. The camp was successful with total blood donation of 34 units.



At 9:30am, the Chief Guest- , Principal- Dr.M Z Shaikh and Vice Principal- Mrs. N G Kadukar inaugurated the Blood Donation Camp. The Doctor's from Tata Memmorial Hospital had come to our college to collect the Blood from the donors. Everything was sanitized and well managed.Dr. M. Z Shaikh, principal of Shri Bhagubhai Mafatlal polytechnic and Dr. Vinod Vanvari, head- Civil engineering department also donated the blood.

51 people came forward to be part of a good cause of which 16 people were rejected due to some health issues. 35 blood samples were collected. Everyone showed so much enthusiasm for the blood donation camp there were many students who were interested in donating blood for this camp but were not of the right age but they didn't loose their enthusiasm there they volunteered for the camp and helped the college out in one way.After donating the blood, the donors were given a pack of biscuit/ coffee and also a certificate .

This camp wouldn't have been a success without the help of Dr. Vinod Vanvari (HCED), Mrs. Supriya Patil and Ms. Neelam Petkar. We are greatfull that they made us understand the importance of blood donation and team work.



ORIENTATION

Shri Bhagubhai Mafatlal
Polytechnic

22nd September 2022



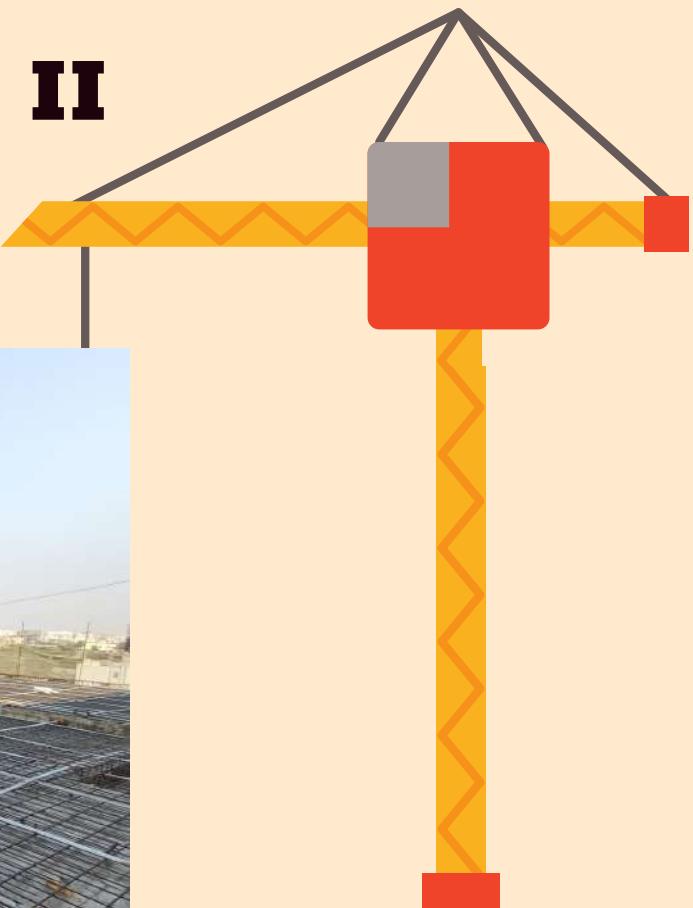
Orientation for the newly admitted students of the batch 2022 -2025 was held on September 23 at Mukesh Patel auditorium for all the departments . The event was organised by the cultural committee . The newly admitted students were allotted the sitting arrangement at the auditorium . The first four rows (A, B, C and D) were reserved for principal, vice - principal, teachers and invited parents . Parents of ten students from every department we're invited for the orientation . The students were informed to report the gate of the auditorium at 10:30am sharp and the orientation started at 11am . The orientation started with felicitation of the honorable Principal Sir Dr. M.Z.Shaikh and Vice - Principal Mrs.Neeta Kadukar . The chief guest Shri Amit Sheth Chairman Shri Vile Parle Kelavani Mandal and the mentor of SVKM'S shri Bhagubhai Mafatlal Polytechnic Followed by the speech of the following. The chief guest gave a detailed speech on how to be successful in your career and how to not only focus on the line you have chosen but to be open minded and learn all types of engineering and discussed possible future in each department.The event was further continued by the performance of the band unit of the cultural committee and showcased a glimpse of the rass eve organised by the cultural committee every year . The students were also shown the fashion shown. Snacks were arranged for the students.



Site Visits Conducted By Civil Department

Site Visit Sem- II

19 May , Thursday,2022



Study of civil is all about practical learning and so students of civil 2nd Semester went for site visit at SBMP phase 2. Students participated with excitement and enhanced their knowledge. A site visit is far more than an excursion or trip.

It is an excellent opportunity to gain insights into how your area of study operates in practice, and if you adequately prepare to collect extensive information during your visit, you will be able to produce a higher quality report or assessment as well.



SITE VISIT AT SEWAGE WATER TREATMENT PLANT- Sem-IV

DATE- 6TH JUNE, 2022.

On 6th June students went to Sewage Water Treatment Plant situated in Andheri, Versova. they reached there at 10.45 . Total 37 students 33 students from sem- IV and 4 students from sem-VI for their project. Then the site engineer Mr Manoj Chavan explained the basics of Waste Water Treatment Plant (W.W.T.F). He also explained lagoons (aeration ponds). Manoj sir elaborated more on basics of Sewage Water and how to treat it in a plant. The plant we visited covers the area of Vile Parle, Andheri, Jogeshwari. The water which is treated in different chambers or tanks are then disposed off in Malad Creek. The capacity of Waste Water Treatment Plant is 180MLD (millilitre/day)



Site Visit to Steel Plant, Wada

- Sem-IV

Course: Design practice of steel structure

Code: DPS190114

Date: 17th May, 2022@10.00 am

Mode of Transportation: Bus service

SITE DETAILS:-

Company's name: M/s. Regency TMT Private Limited

Address: 111, Anil Complex, Regency Hall, New Link Road,

Ulhasnagar, Thane, Maharashtra, 421003

Telephone No.: 9822450500

E-mail Address: regency.tmt2018@gmail.com

INTRODUCTION:-

the educational visit of DPSS was planned on Tuesday, 17th May 2022. This visit was supervised by Mr Vinod Vanvari, Ms Neelam Petkar and Mr Sandesh Said (Engineer – H & K Rolling Pvt Ltd). Total 30 students from semester IV and 2 students from semester II, joined this visit. The journey started from Borivali East Oberoi sky city at 7:30am and we reached at site by 10:30 am.

• **WATER PUMPING AND RECYCLING STATION:**

They had a pump station which was located at a little low height from where the actual plant was located. They used water to help the billets to cool down and that water comes down to pump station the water goes in a machine where it maintains the water temperature at 20°C and that water is sent again for use. This way water is been recycled there which is a brilliant method we got to see.



• **LEARNING OUTCOME OF VISIT**

In educational visit I learnt lot many things. It has helped me in improving my knowledge in manufacturing process about steel. It has also enhanced my knowledge about steel manufacturing process right from the raw material stacking to getting the finished product.



Coastal Road Site Visit



1st December 2022 III Sem Civil

The Civil Engineering Department of Shri Bhagubhai Mafatlal Polytechnic had planned a Coastal Road site Visit for all 3rd Semester Students on 1st December 2022 as a part of subject/ course of 'Highways Bridges Railways'.

The coastal Road is an under construction 8 lane, 29.2km long grade seperated expressway that would run along Mumbai's western coastline connecting Marine lines in the south to Kandivali in the north. By the route it is expected to reduce travel time between south Mumbai and western Suburbs from 2 hours to only 40 minutes.

The Coastal Road will be built in two phases. It will have 8 lanes, including 2 lanes dedicated for a bus rapid transit system. The project will require the reclamation of 415 acres (1.68 km²) of land from the sea.

Phase 1

The first phase of the project is a 9.98 km section from Princess Street Flyover at Marine Lines to the Worli end of the Bandra-Worli Sea Link Package 1 includes the construction of a 3.82 km long section over reclaimed land from Priyadarshini Park to Baroda Palace

Phase 2

Work on the second phase, a 19.22 km road between the Bandra end of the BWSL and Kandivali, will be constructed by MSRDC. The phase includes the 9.5 km Versova-Bandra Sea Link

The Brihanmumbai Municipal Corporation awarded contracts for the project in four packages. Larsen and Toubro (L&T) was awarded Package 1 and 4 at a cost of ₹7,484 crore and The Hindustan construction Company & Hyundai development company were awarded package 2 and 3 at a cost of ₹2, 126 crore.

We went to the Package 4 which was given to L&T; The package 4 includes the construction of a 3.93 km section of Princess Street flyover, to Priyadarshini Park, including The up and down ramps from Marine drive connecting to the twin tunnels passing below girgaon Chowpatty, Malabar hills and exit at priyadarshini park to connect with Section package 1.



At first we were taken to the tunnel part of the construction. The length of the Tunnel is 3 to 3.5 km .The road is approx 22m below the sea level. There are 6 cross passages provided at every 300m between the two lanes of opposite direction of flow. It is a three lanes tunnel .Three lanes on each side of traffic flow. For the excavation of the tunnel, the Tunnel Boring Machine had been used.



After twin tunnels, we headed towards the interchange part where piling was going on. The interchange part is known as Haji Ali interchange make a multilevel interchange. By using mono pile foundation technology from multi pile. This not only helps to reduce the cost by 12,00,00,000 but also its built time by this month. in monopile technology, only one pile is required for supporting a pillar . There was a sea wall which was constructed to retain the wave current. Huge stones were placed near the sea level.

After visiting places at the site ,we went to the conference room where the staff of MCGM gave us detail explanation of the sea wall along with drawing its cross-section and explained the full map of coastal Road i.e working, causes reasons of delays, “cases about tunnels and interchange”.

The project includes the construction of 6.5 km of walking past, cycling and jogging track further and 6.5 km long sea wall along the coastal Road, is planned to create parking with a capacity of 200 cars. They told us that the coastal road will create 91 ha of green space lowering pollution levels in the city.

We are thankful to the HOD and the teachers of the Civil engineering department to organize this visit and also to MCGM and L&T to spare their precious time and explain about the Coastal Road.



SURVEY AT SAGUNA BAUG



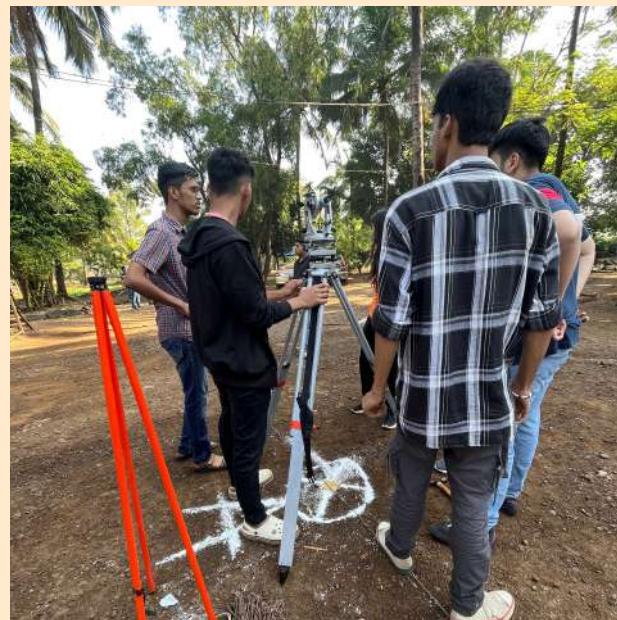
Date : 5th November, 2022

Activity : Theodolite Survey

Venue : Saguna Baug

First Day at Site

To make our concept clear about theodolite surveying, our subject teacher took us at Saguna Baug where we were said to perform theodolite survey which contained 20 marks. Open large plots were we performed surveying which was convenient and knowledgeable to us. After reaching the site at 8am we were divided into teams. We performed the activity till 5pm and were given time to do calculation. Practicing at Saguna Baug gave us a small experience of real civil engineers at site.



SURVEY AT SAGUNA BAUG



Date : 6th November, 2022

Activity: Plane Table Survey

Venue : Saguna Baug

Second Day at Site

The second day we started at 8 am in the morning. At first we were taught about the plane table survey ,its usefulness and importance at the ground itself with practical work. Then we were divided into three groups and told to draw the boundaries of the plot area and the small cottages present inside that area on a sheet of paper through the procedure of plane table survey.

After the completion of this Survey project for two days ,we were confident about our theory and practical skills at site .

We are thankful to Dr. Vinod Vanvari (HCED), Ms. Neelam Petkar and Mr. Sandeep Ranshur for organizing this study tour so that we improve our practical skills.



Expert Lecture on Implant Training by-Prof. A. K. Singh

Prior to proceeding for implant training, expert lecture was arranged for 5th semester students to impart valuable knowledge on the topics related to implant training at sites and in offices.

1. TOTAL NO. OF TRAINEES PRESENT:

Students of Civil Engineering department from 5th semester were present.

2. REPORT:-

Date: 16/07/2022

Expert Speaker: Prof. A. K. Singh

This lecture was organised by Prof. A.K. Singh of Civil Engineering Department at SVKM's Shri Bhagubhai Mafatlal Polytechnic. The lecture was very Interactive. He showcased his Expert Knowledge towards Civil Engineering Career. Content of presentation was very informative and specific. It gave a better understanding of implant training to derive the best from training.



(3) TOPICS COVERED:-

- Different construction materials
- Different construction equipment
- Reinforced cement concrete construction practices
- Post tensioning technique
- Quantity survey & estimation
- Site safety
- Communication skills
- Presentation skills
- Roles & duties as a responsible site engineer

(4) OUTCOME:-

At the end of session all doubts and questions were Answered. The lecture was really helpful for the students under going implant training as it gave them a brief idea about how to work on site with full responsibility and safety.





BLOGS

Poem

I let

the calmness surround me

The tranquility of the nature

for it's a wonderful place to call home

Walking on the grass barefoot

With a view to bringing life to my heart

As the river water gushed through the

mountains chill and cold

Surrounding the place to a paradise in

heaven

With every breath of fresh air, I took

I was amazed by the beauty surrounding

the green lusty mountain

And the clear skies

Reminding the nature's touch

of magic in every element of

this beautiful paradise

Non-Scholastic Activities

DHARAP CRICKET TOURNAMENT

28th March, sunday2022



"Dharap cricket tournament " was held on 28th March 2022 at Netaji Subhashchandra Bose Kridangan, Poisur Gymkhana marg, Where all department stood against each other to win. However Civil department was not able to achieve prize. Afterall civilians cheered to winning team and supported to all the teams who were ready to play next.Through these player we leraned about how winning is not always important and with this once a famouse hockey player said

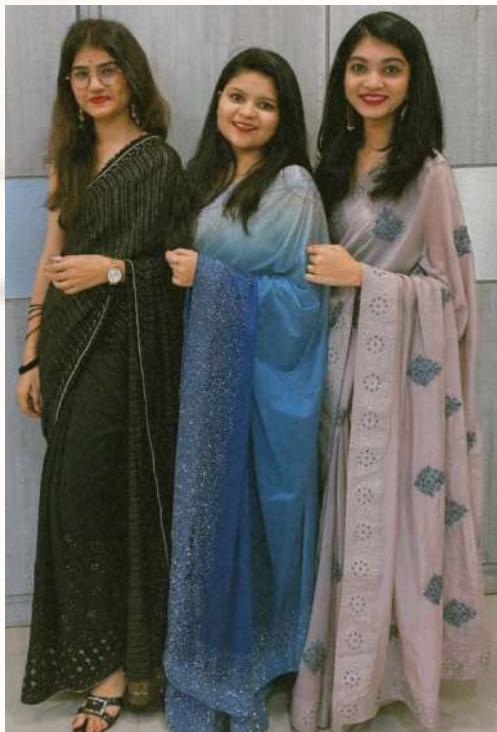
"Loosing is essential to anyone's success, the more you loose the more you want to win."

when it comes to game we have to always accept winning and losing before the game . but for next time we all civilians wish you best of luck

!!

Saree and Blazer Day

2nd March Wednesday 2022



Traditional Day

28 February, Monday 2022



#drawing skills

@niravvakharia
2nd sem



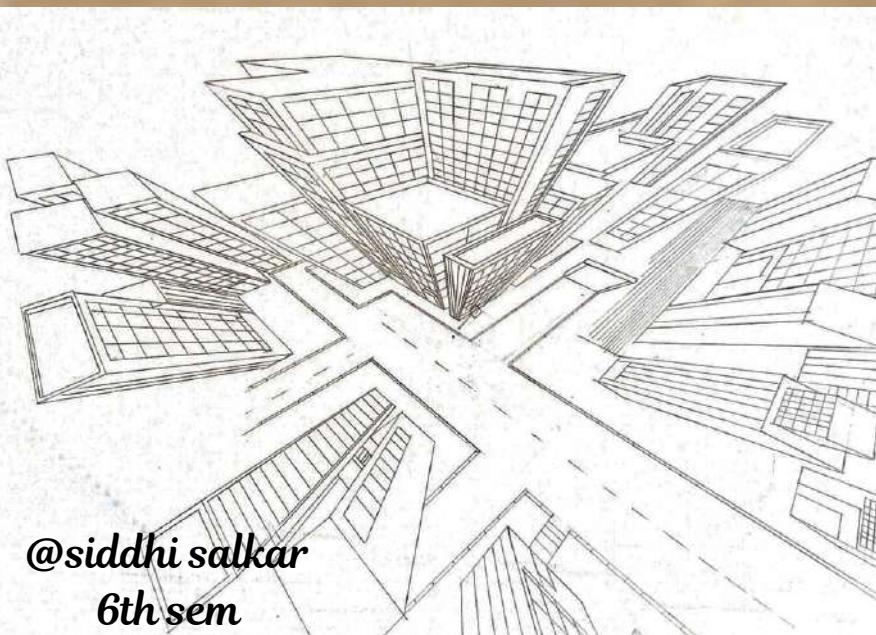
@payumane

2sem



@yash bhoir

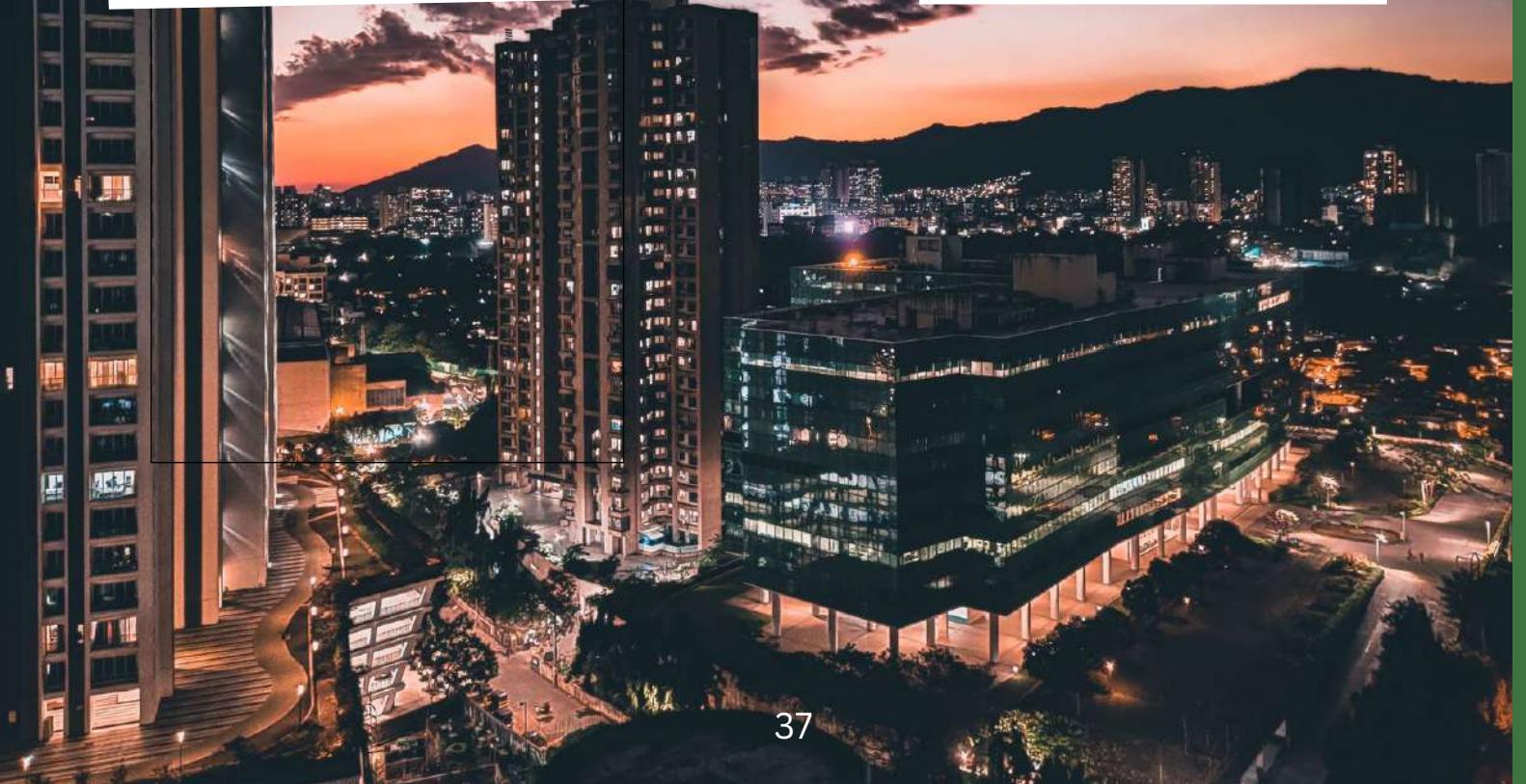
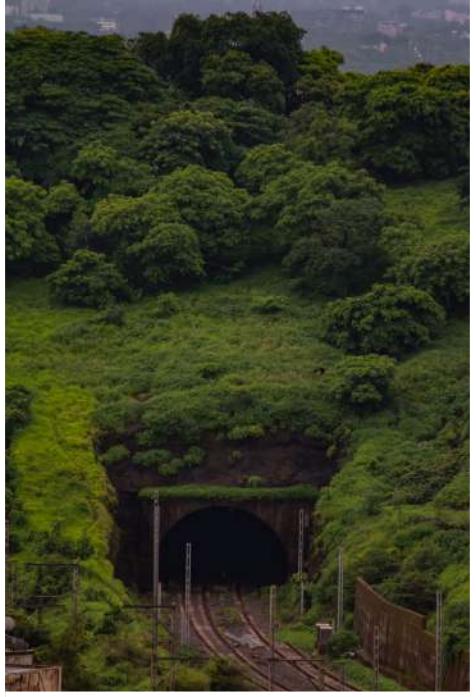
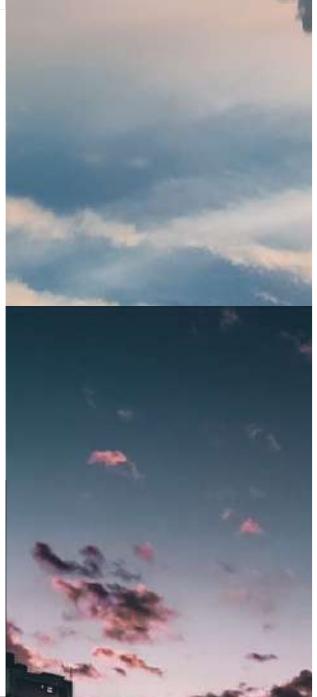
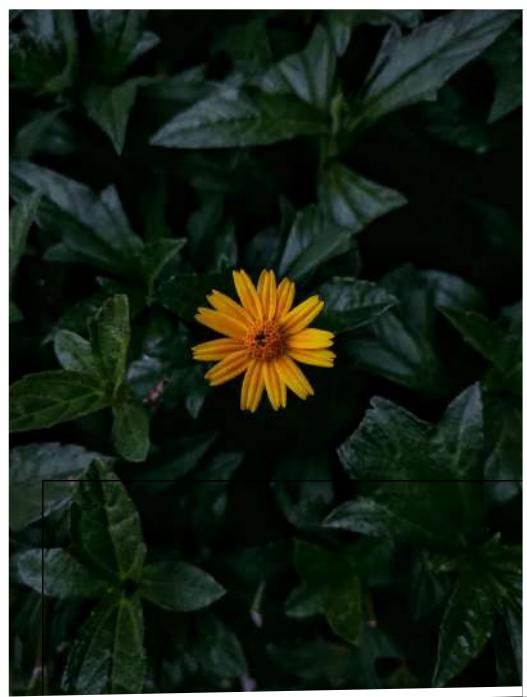
6thsem



@siddhi salkar
6th sem



@neelsheth
6thsem



Inhouse Achievements



Neel Bhagwati CR of VI Semester Civil Department achieved trophy for Best CR of Shri Bhgubhai Mafatlal Polytechnic for the academic year 2021-2022.

Maths Club



Parth Shah and Saneet Gurav from Civil department II semester won the prize for fastest calculation by using calculator.

Inter college Winners



NATIONAL LEVEL PROJECT & PAPER PRESENTATION COMPETITION



Inter college Winners



1st Runner up in Tech housie



Runner up in Battle Grounds Mobile India(BGMI)





Participants

Cricket

Swayam Shah [sem II]

Aryan Jain [sem II]

Samarth Mehta [sem II]

Shubham Sharma [sem II]

Mit Jain [sem IV]

Kaushal Rampariya [sem IV]

Arya Patel [sem IV]

Harsh Desai [sem IV]

Karan Jaiswal [sem IV]

Vats Madhani [sem IV]

Nakul Thakur [sem VI]

Ryan Sunkari [sem VI]

Sohum Ajmera [sem VI]

Technowent State level

Inter- college quiz competition

Nirav Vakharia [sem II]

Yashraj Doshi [sem II]

Heet Shah [sem II]

Viraj Mahadik [sem II]

Inter-college

Kaushal Rampariya [sem IV]

Om Kaginkar [sem IV]

Devang Karnavat [sem IV]

Arya Patel [sem IV]

D.J Sanghvi competition

Payu Mane [sem II]



Annual Day

Payu Mane [sem II]
Yukti Sangani [sem II]
Rishi Tank [sem II]
Yashraj Doshi [sem II]
Hrushil Shah [sem II]
Raj Patel [sem IV]
Jiya Madhav [sem IV]
Himanshi Parmar [sem IV]

Festum Stall

Kaushal Rampariya [sem IV]
Om Kaginkar [sem IV]

Achievements by HOD , Civil Engineering Department

On 26th March 2022, IIT Bombay had conducted its Techo-Cultural Fest 'Aakaar 22'.

It was consisting various events including paper presentations. Total there were 11 papers in construction management category conducted out of which our Head of "Civil Engineering Department, Prof. VB Vanvari had participated in Paper Presentation" on the topic "Urban Renewal and Models of Redevelopment" and achieved Top Position. He was felicitated with a certificate and a cash prize of Rs. 10,000.

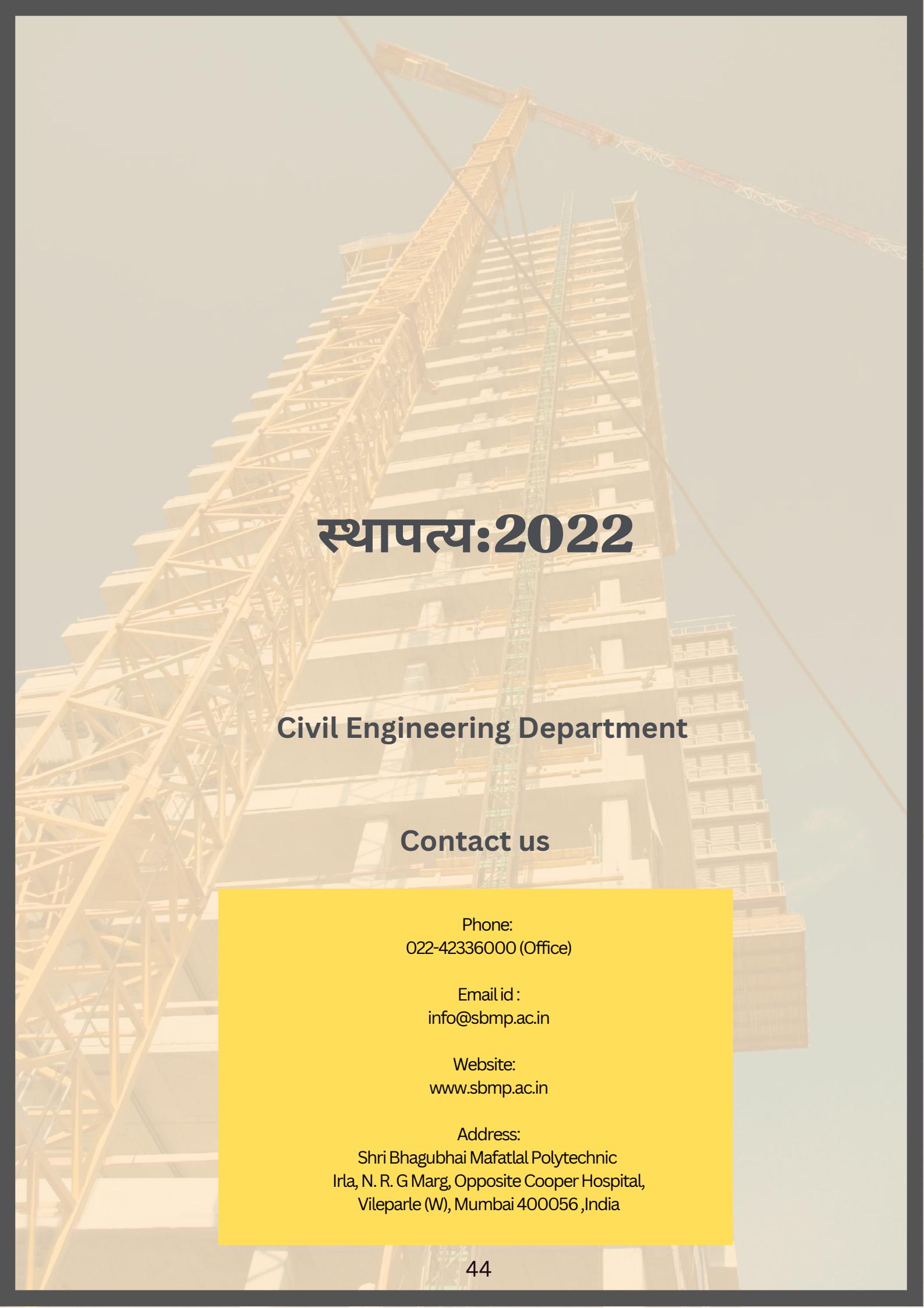
On 5th May 2022, ArdorComm - Higher Education and EdTech Conclave and Awards 2022" Pune.

On this event Prof. VB Vanvari received an award for "Excellence in Teaching Learning Processes". He was Awarded with a Trophy and a Certificate.



On 29th July 2022 , Prof. VB Vanvari gave an exam of Ph.D Open defense at VJTI . He completed his research work in area " Redevelopment of Building "in Mumbai City..





स्थापत्यः2022

Civil Engineering Department

Contact us

Phone:
022-42336000 (Office)

Email id :
info@sbmp.ac.in

Website:
www.sbmp.ac.in

Address:
Shri Bhagubhai Mafatlal Polytechnic
Irla, N. R. G Marg, Opposite Cooper Hospital,
Vileparle (W), Mumbai 400056 ,India