DEPARTMENT OF CIVIL ENGINEERING

"Sthapathya Vaartha"

(2023-2024)
Volume: 9 Issue: 2

Inside this issue

HOD MESSAGE

This news bulletin '**Sthapathya Vaarta**' is an outcome of the CIVIL ENGINEERING department's activities throughout the previous semester. The editing staff has worked hard to gather information and display it in an attractive manner in the News bulletin. I am delighted to interact with all stakeholdersvia it. On behalf of the Civil Engineering department, I would like to thank Executive Director Shri Anil A. Bagane and Principal Dr. S. A. Khot for your ongoing inspiration in bringing all operations to a single level.

Dr. V. K. Naik
H.O.D.
CIVIL ENGINEERING

NEWS LETTER COORDINATOR MESSAGE

I am happy to share the Civil Engineering Department's news release with you. It is a representation of the department's various activities as well as the contributions of the civil engineering department's professionals and students.

Mr. V. R. Nejkar

Assistant Professor

News Letter Coordinator

News Letter Committee Members

		
MR. GURU CHIGARE TY Civil	MR. SHREYASH KALKUTAGI TY Civil	MR. ADITYA KURDE TY Civil

- **Vision, Mission and Quality Policy and PEO of Department**

The vision of the Department

To be a center of excellence in various sub-branches of Civil Engineering to prepare professionally competent engineers with a lifelong learning attitude for the accomplishment of ever-growing needs of society.

The Mission of the Department

- To prepare technically and professionally competent engineers by imparting quality education through effective teaching-learning methodologies and providing a stimulating environment for research and innovation
- To develop professional skills and the right attitude in students that will help them to succeed and progress in their personal and professional career
- To imbibe moral and ethical values in students with concern to society and the environment

The Program Educational Objectives (PEOs)

PEO I: Demonstrate capabilities to develop an optimal solution to the real-world engineering problems by applying the theory-based practical approach of civil engineering and related interdisciplinary fields.

PEO II: Exhibit professional skills, ethical attitude and sensitivity towards society and environment.

PEO III: Engage in life-long learning for successful adaptation to technological changes.

NBA NEWS:

IT IS A GREAT MOMENT TO SHARE WITH YOU THAT THE DEPARTMENT OF CIVIL ENGINEERING HAS BEEN RE-ACCREDITED BY THE NBA FOR A FURTHER THREE YEARS.

RE-ACCREDITATION OF THE NBA FOR THE ACADEMIC YEARS 2024–2025, 2025–2026, AND 2026–2027, I.E., UP TO JUNE 30, 2027.

- **LIST OF DAAB MEMBERS**

Following are the DAAB members of the department for AY-2023-24

Sr. No.	Name of person	Designation
1	Dr. V. K. Naik	Head of Department, and Chairman DAAB
2	Prof. Dr. S. N. Tande	Other Academic Institute Faculty-Member
3	Prof. Dr. R. V. Raikar	Other Academic Institute Faculty-Member
4	Mr. S. S. Deshpande	Industry Person-Civil Engg.-Member
5	Mr. Nitin K. Patil	Industry Person-Civil Engg.-Member
6	Mrs. Kalyani Asmita	Parent-Member
7	Er. Amardeep A. Patil	Alumni- Member
8	Er. Kapil Girange	Alumni- Member
9	Mr. Kunal D. Shikalgar	Current student B. Tech- Member
10	Mr. Siddesh Kadam	Current student T.Y- Member
11	Mr. Y. S. Patil	Programme Co-ordinator, and NBA Coordinator
12	Ms. Pranoti O. Shirole	Academic Co-ordinator.
13	Mr. A. B. Jadhav	Senior faculty- Member
14	Mr. Y.U. Kulkarni	Senior faculty- Member
15	Dr. R. M. Garud	S.Y. Class Teacher, and Secretary DAAB,
16	Mrs. S. M. Patil	T.Y. Class Teacher- Member
17	Mr. V. R. Nejkar	B. Tech. Class Teacher – A Div-Member
18	Ms. Amruta Ware	B. Tech. Class Teacher- B Div- Member

- **PAPERS AND BOOK PUBLICATION**

Sr. No	Name of Author	Publication	Journal
1.	Dr. Pinki Deb	Utilization of Fly Ash and Rice Husk Ash in Cold Mix Asphalt as Filler	E3S Web of Conferences 455, 03009 (2023)
2.	Dr. Pinki Deb	Cold Mix Asphalt Technology, Mix Design and Performance: Sustainable Road Construction Technology	ELIVA Academic Publishing
3	Mrs. S. A. Patil	Constructional Planning and Management	SCIENTIFIC INTERNALTIONAL PUBLISHING HOUSE (SIPH)
4	Dr. Mosir Shah	Nanomaterial's in Pavement Engineering	LAMBERT Academic Publishing
5	Mr. A. B. Jadhav	Fundamentals of Geotech and Ground Engineering	SCIENTIFIC INTERNALTIONAL PUBLISHING HOUSE (SIPH)

- **PATENT PUBLICATION**

Sr. No.	Application number	Applicant Name	Title of the patent	Type of Patent	Date of Publication
01	202421030953	1.Mr.A.B.Jadhav 2.Dr.V.K.Naik 3.Mr.Y.S.Patil 4.Mrs. S.A.Patil 5.Mrs.P.O.Shirole 6.Ms. Namira Tamboli 7.Ms. Nisha Alase 8.Ms. Susmita Vadar	Thermal Insulation CLC Brick By Using Glass Fiber Mesh	National	18/04/2024
02	202421030956	1.Mr.A.B.Jadhav 2.Dr. Pinki Deb 3.Mrs. S.M.Patil 4.Ms. P.T.Powar 5.Mr. Sandesh B. Kamble 6.Mr. Abhishek S. Kashmire 7.Mr. Asif N. Maner 8.Mr. Shubham Alase 9.Mr. Pratik N. Thigale	Model of Insulated Plaster Panel	National	18/04/2024
03	202421030951	1.Ms. Amruta.D.Ware 2.Ms. Pooja.R.Patil 3.Mr. Y.U.Kulkarni 4.Dr. R.M.Garud 5.Ms. Aditi D.Birje 6.Mr. Chirag Y.Girse 7.Mr. Ansar S.Jamadar 8.Ms. Maithili Chavan	Safety Jacket With Helmet Hoodie made with Glass Fiber	National	18/04/2024
04	202321074756	1. Dr. Pinki Deb 2.Mr.A.B.Jadhav 3.Mr. V. R. Nejkar 4.Ms. Pooja.R.Patil 5.Ms. Amruta.D.Ware 6.Mr. Shreyash Sachin shinde 7.Mr. Vivek Vijay Koli 8.Mr.Abdulsajid Ganiahamad Gavandi	Performance of Hot Mix Asphalt using Nano-Clay Modified Binder and Polypropylene Fibre	National	18/04/2024

STTP/ WORKSHOP ORGANIZED BY CIVIL DEPARTMENT

ISTE Approved one-week Faculty Development Program on "Advanced Software in Civil Engineering" organized by department of Civil Engineering, SITCOE.

'Sharad Institute of Technology College Of Engineering, Yadrav' & Department Of Civil Engineering', organized one week faculty development program on **"Advanced Software's in Civil Engineering"** on the date 26/12/2023 to 30/12/2023. Event was conducted in offline mode.

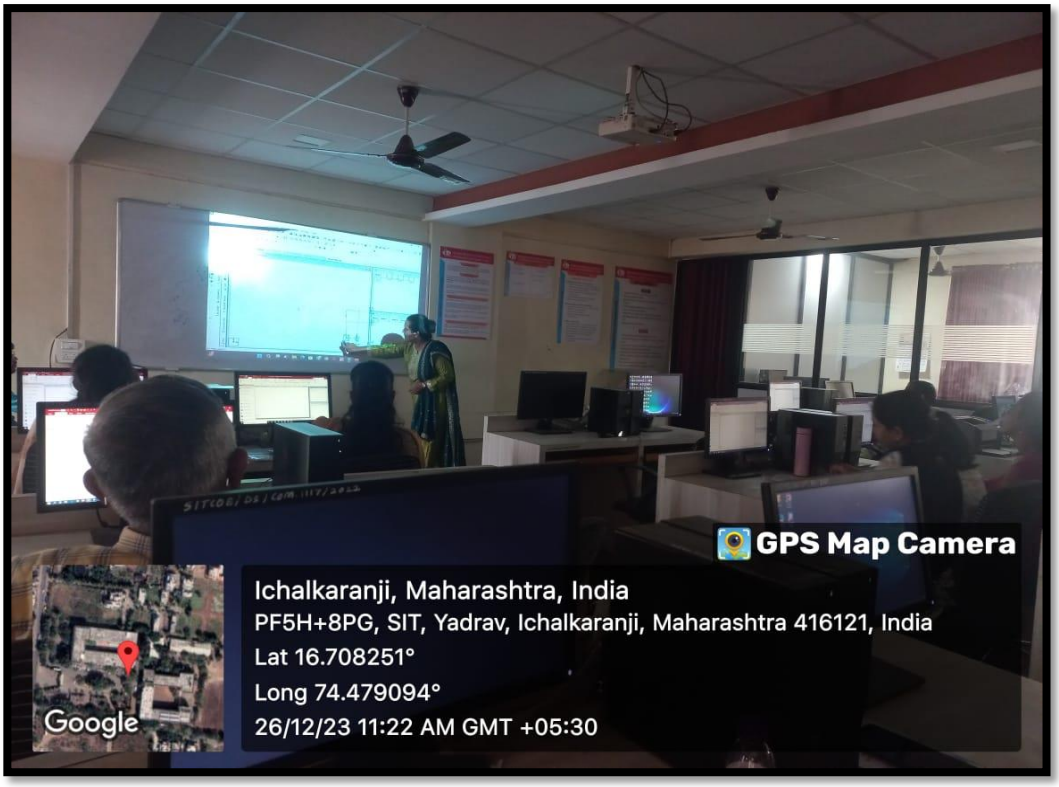
Content

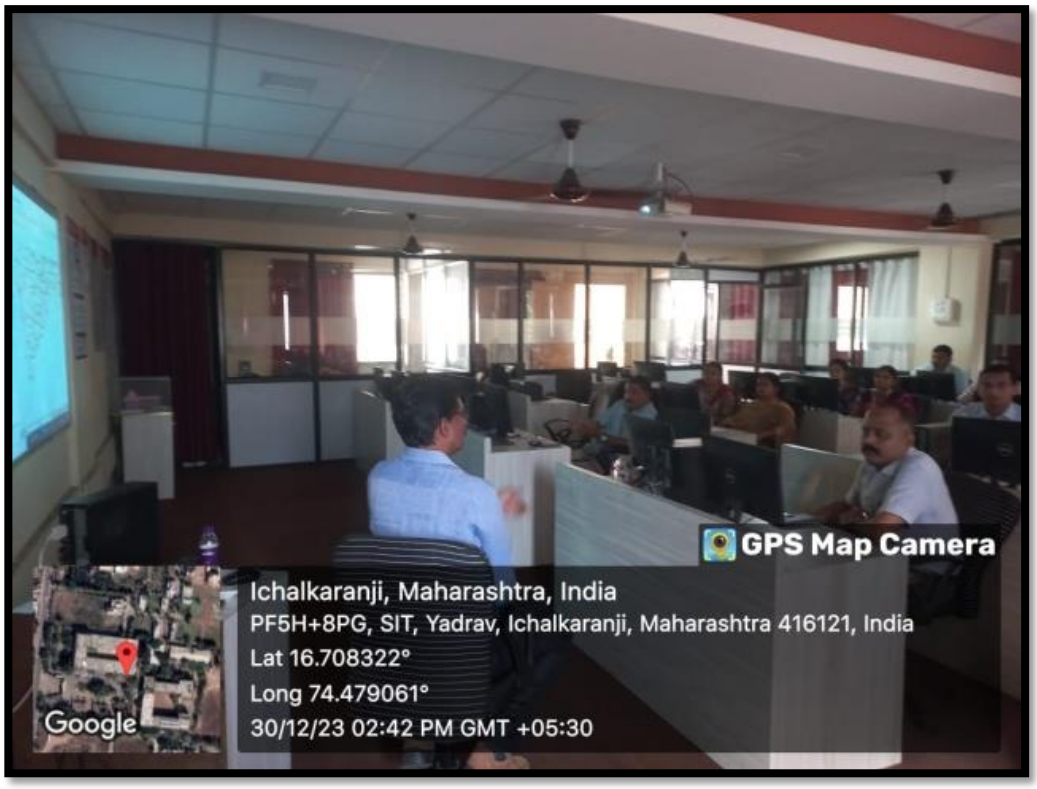
- Introduction to software related to civil engineering
- Need of advanced software's in Civil engineering
- Applications of software's in civil engineering field
- Hands on training on software's

FDP SCHEDULE

Sr. No.	Expert/ Speaker Name	Topic
1	Ms. Neeta Kamble Mr. Shubham Kamble	Introduction to STAAD Pro
2	Ms. Neeta Kamble	Hands-on training on Total Station software
3	Mr. Girish Arekar	Road active software
4	Dr. Rasmi Jadhav	Introduction to ANSYS
5	Dr. Anand Tapase	Introduction to pavement design
6		Applications of IIT PAVE software
7	Er. Sheetal S. Varur	QGIS

Pictures from Faculty Development Program:

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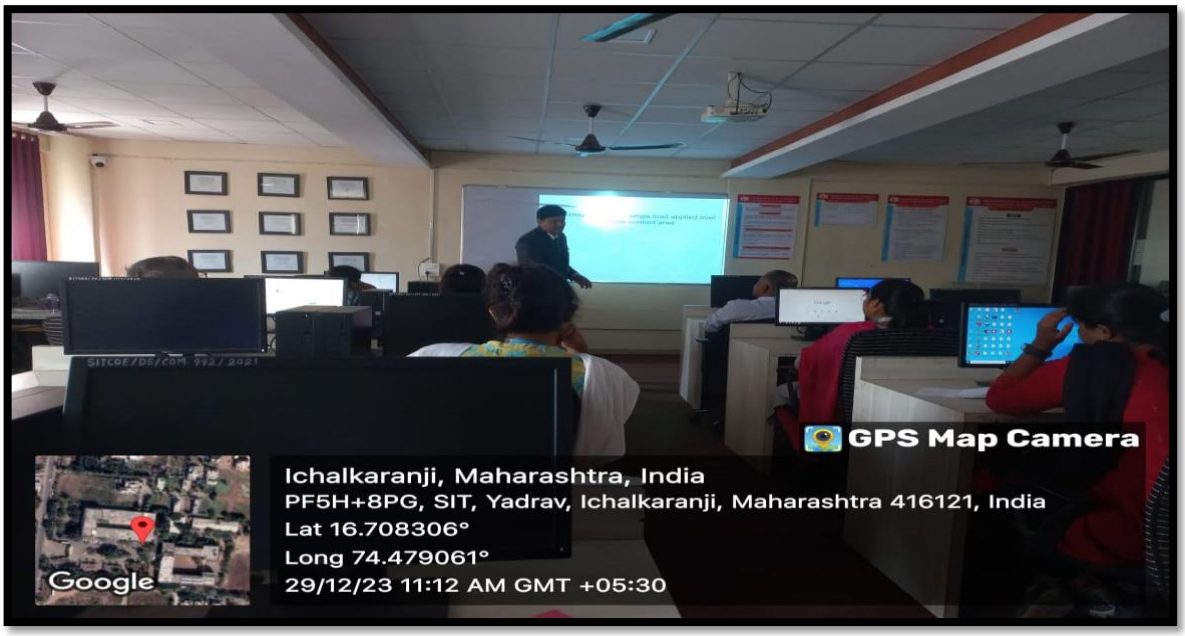
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- **FDP attended by Faculties**

Sr. No.	Name of Faculty who attended	Title of the program	Duration
1	Mr. A. B. Jadhav	Advanced Software's in Civil Engineering	26.12.23 to 30.12.23
		Innovative Education and Research: OBE, Effective Assessment, Research Integrity and Personality Development	03.06.24 to 08.06.24
2	Dr. R. M. Garud	Advanced Software's in Civil Engineering	26.12.23 to 30.12.23
		Innovative Education and Research: OBE, Effective Assessment, Research Integrity and Personality Development	03.06.24 to 08.06.24
3	Dr. V. K. Naik	Advanced Software's in Civil Engineering	26.12.23 to 30.12.23
		Innovative Education and Research: OBE, Effective Assessment, Research Integrity and Personality Development	03.06.24 to 08.06.24
4	Dr. Pinki Deb	Advanced Software's in Civil Engineering	26.12.23 to 30.12.23
		Innovative Education and Research: OBE, Effective Assessment, Research Integrity and Personality Development	03.06.24 to 08.06.24
5	Dr. Mosir Shah	Innovative Education and Research: OBE, Effective Assessment, Research Integrity and Personality Development	03.06.24 to 08.06.24
6	Mr. Y. S. Patil	Advanced Software's in Civil Engineering	26.12.23 to 30.12.23
		Innovative Education and Research: OBE, Effective Assessment, Research Integrity and Personality Development	03.06.24 to 08.06.24
7	Mr. Y. U. Kulkarni	Advanced Software's in Civil Engineering	26.12.23 to 30.12.23
		Research Methodology	Jan.-April 2024
		Innovative Education and Research: OBE, Effective Assessment, Research Integrity and Personality Development	03.06.24 to 08.06.24
8	Mr. V. R. Nejkar	Advanced Software's in Civil Engineering	26.12.23 to 30.12.23
		Geology and Soil Mechanics	Jan.-April 2024
		Innovative Education and Research: OBE, Effective Assessment, Research Integrity and Personality Development	03.06.24 to 08.06.24
9	Ms. A. D. Ware	Advanced Software's in Civil Engineering	26.12.23 to 30.12.23
		NBA Accreditation and Teaching-Learning in Engineering (NATE)	Jan.-April 2024

		Innovative Education and Research: OBE, Effective Assessment, Research Integrity and Personality Development	03.06.24 to 08.06.24
10	Mrs. P. O. Shirole	Advanced Software's in Civil Engineering	26.12.23 to 30.12.23
		NBA Accreditation and Teaching-Learning in Engineering (NATE)	Jan.-April 2024
		Innovative Education and Research: OBE, Effective Assessment, Research Integrity and Personality Development	03.06.24 to 08.06.24
11	Mrs. S. A. Patil	Advanced Software's in Civil Engineering	26.12.23 to 30.12.23
		NBA Accreditation and Teaching-Learning in Engineering (NATE)	Jan.-April 2024
		Innovative Education and Research: OBE, Effective Assessment, Research Integrity and Personality Development	03.06.24 to 08.06.24
12	Ms. P. T. Powar	Advanced Software's in Civil Engineering	26.12.23 to 30.12.23
		Innovative Education and Research: OBE, Effective Assessment, Research Integrity and Personality Development	03.06.24 to 08.06.24
13	Mr. A. H. Hosurkar	Advanced Software's in Civil Engineering	26.12.23 to 30.12.23
		Innovative Education and Research: OBE, Effective Assessment, Research Integrity and Personality Development	03.06.24 to 08.06.24
14	Ms. P. R. Patil	Advanced Software's in Civil Engineering	26.12.23 to 30.12.23
		NBA Accreditation and Teaching-Learning in Engineering (NATE)	Jan.-April 2024
		Innovative Education and Research: OBE, Effective Assessment, Research Integrity and Personality Development	03.06.24 to 08.06.24
15	Mrs. S. M. Patil	Advanced Software's in Civil Engineering	26.12.23 to 30.12.23
16	Mr. S.S. Yadav	Advanced Software's in Civil Engineering	26.12.23 to 30.12.23
		Innovative Education and Research: OBE, Effective Assessment, Research Integrity and Personality Development	03.06.24 to 08.06.24

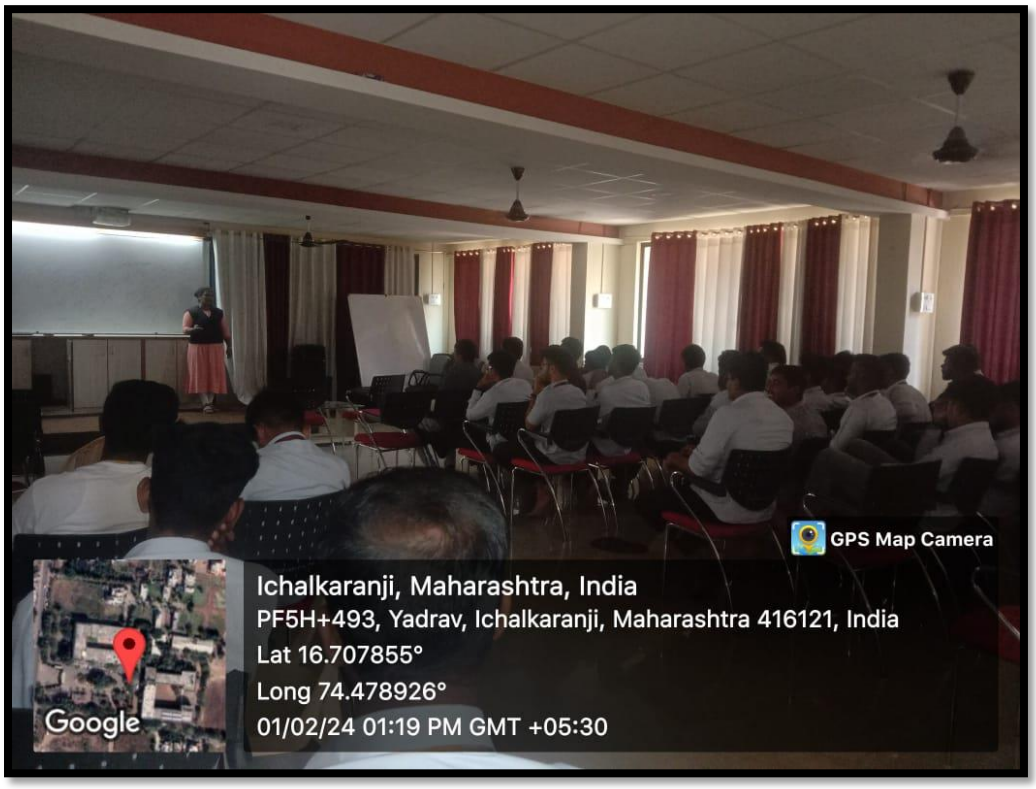
- **GUEST LECTURE SUMMARY**

Sr. No.	Topic for Expert Talk	Expert Name & Designation	Date of Expert Talk	Class
1	Practical approach toward professional career	Mr. Amol chavan (consulting engineer and contractor, sangali)	23-01-2024	TY Civil
2	Career Guidance	Mr. Abhay Kelkar (Shri mahalaxmi Academy, Kolhapur)	25-01-2024	TY Civil
3	Application of software in civil engineering	Ms. Neeta Kamble (Consultant engineer, IGTR, Kolhapur)	1-2-2024	TY Civil
4	Revit Architecture and Total station	Ms. Neeta Kamble (Consultant engineer, IGTR, Kolhapur)	2-2-2024	TY Civil
5	Industrial safety and Health	Dr. Santosh Nimbalkar (Morya Multispeciality Hospital, Kolhapur)	9-2-2024	SYand TY Civil
6	Introduction to Intellectual Property Right	Dr. Anand B. Tapase (Assistant professor, KBP, Satara)	24-2-2024	SYCivil
7	Building the Future: Civil Engineering Research in Sustainability & Natural Resources	Mr. Vivek D. Patil Research Associate, Dept. Of civil Engineering, VTU Belgavi	10-04-2024	SYand TY Civil

Guest Lecture Pictures

Guest Lecture on "Practical approach toward professional career" by Mr. Amol chavan

Guest Lecture on "Career Guidance" by Mr. Abhay Kelkar



Guest Lecture on "Application of software in civil engineering" by Ms. Neeta Kamble

Guest Lecture on "Industrial safety and Health" by Dr. Santosh Nimbalkar

Guest Lecture on "Introduction to Intellectual Property Right" by Dr. Anand B. Tapase

Guest Lecture on "Revit Architecture and Total station" by Ms. Neeta Kamble

- **INDUSTRIAL VISITS SUMMARY**

Sr. No.	Subject	Visit Location	Class	Date
1	Pile foundation construction site	Aadinath society, Ichalkaranji	SY, TY	7.02.2024
2	Isolated footing construction site	Sahkar nagar, Ichalkaranji	SY, TY	7.02.2024
3	Kolhapur Airport	Ujalivadi Kolhapur	SY, TY	18.03.2024
4	DRX,RMC plant	Nimshirgaon	SY	24.04.2024
5	Performance of Rebound hammer test	SITCOE, Ichalkaranji	SY	11.5.2024
6	Performance of NDT (Pulse velocity test)	SITCOE, Ichalkaranji	SY	11.5.2024

Visit Pictures

Visit at 'Pile foundation construction site, Ichalkaranji' on 07/02/2024

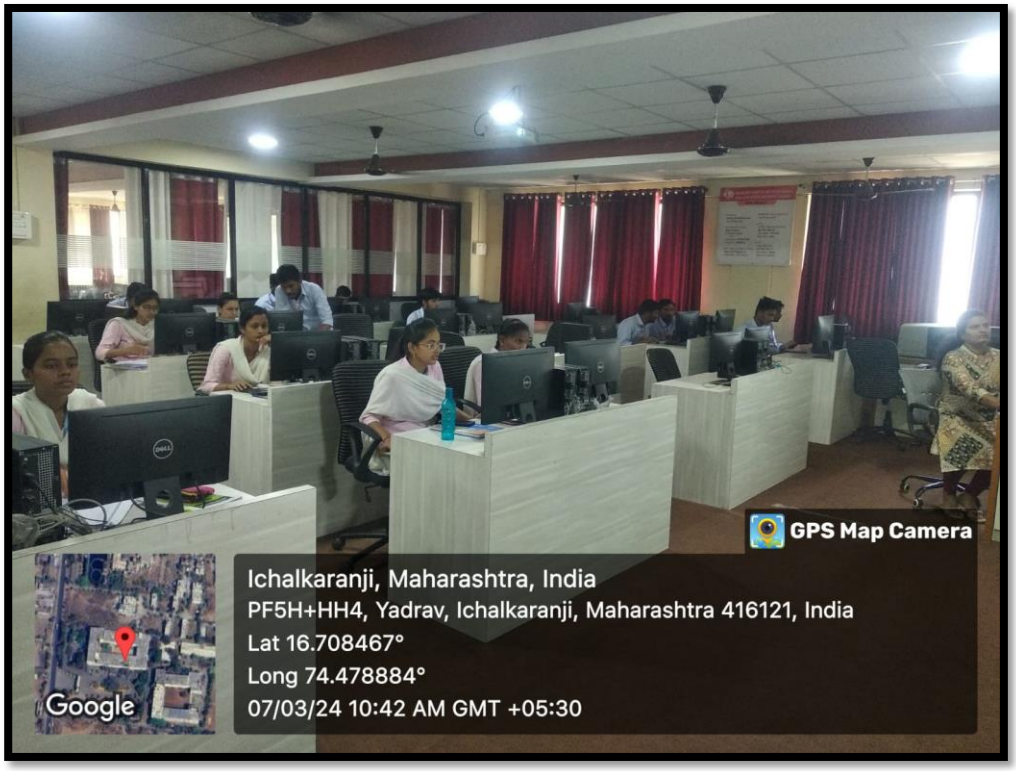
Visit at 'Isolated footing construction site, Ichalkaranji' on 07/02/2024

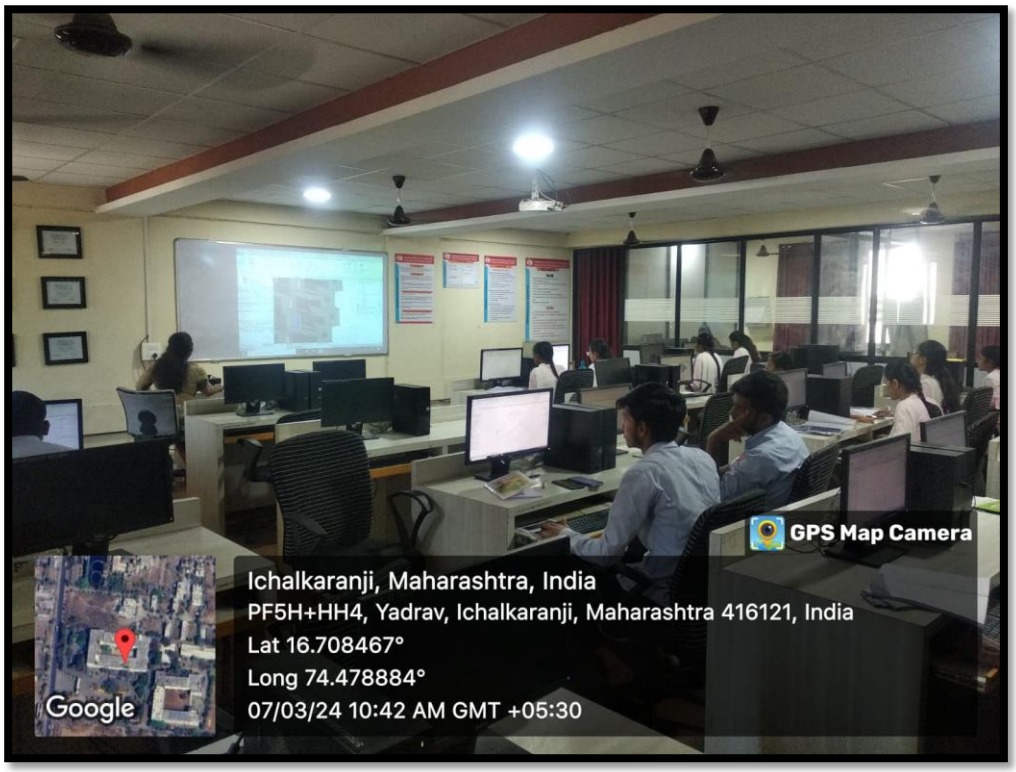
Visit at 'Kolhapur Airport, Ujalivadi Kolhapur' on 18/03/2024

Visit at 'DRX, RMC plant, Nimshirgaon' on 24/04/2024

● VALUE ADDED PROGRAM

VAP is conducted for SY students on 'Revit-Architecture' from March 06, 2024, to March 14, 2024, at 9:30 a.m. to 4:30 a.m. A total of 24 students attended this VAP organized by the Civil Department. The VAP is conducted by Ms. Neeta Kamble (Consultant engineer, IGTR, Kolhapur).





Another VAP is conducted for SY students on ‘Introduction of Total Station’ from April 24, 2024, to April 27, 2024, at 9:30 a.m. to 4:30 a.m. A total of 42 students attended this VAP organized by the Civil Department. The VAP is conducted by Ms. Neeta Kamble (Consultant engineer, IGTR, Kolhapur).

- **CESA ACTIVITY: PRARAMBH 2K24 -**

The Civil Department organizes different kinds of activities to celebrate World Meteorological Day and World Water Conservation Day. Events are organized by the Civil Engineering Students Association (CESA) committee to raise awareness of the value of water and the various issues we face. On March 23, 2024, the civil department concluded the event. The events featured reels about the value of water, a Quiz competition, and poster competitions focused upon water conservation.

Some Glimpses of Events:

Registration:

Inauguration:

1) Quiz Competition:

2) Poster Competition:

Prize Distribution:

STUDENT ACHIEVEMENT/PARTICIPATION

SR. NO.	STUDENT NAME	EVENT NAME	COLLEGE NAME	DATE
1	Bhuvaneswari Satish Kamble	Tech Build	DKTE	16.03.2024
2	Shivtej mallikarjun khichade	Tech Build	DKTE	16.03.2024
3	Avinash D Mendhe	Brain on	ADCET Ashata	21.03.2024
4	Sakshi Arun Jadhav	Tech Build	DKTE	16.03.2024
5	Sujay Rugge	Arch Tech 2024	Association of Engineers and architects	24.02.2024
6	Abhishek M Danwade	Tech Build	DKTE	16.03.2024
7	Sifana Yasin Shaikh	Brain on	ADCET Ashata	21.03.2024
8	Shahabaj Mulla	Brain on	ADCET Ashata	21.03.2024
9	Asmita Dhananjay chavan	Cadonova	DKTE	16.03.2024
10	Shubham Telave	Sustainable construction	SITCOE	23.04.2024
11	Yash Sanjay kalgutagi	Apti King	ADCET Ashata	23.04.2024
12	Sannidhi Babaso patill	Cadonova	DKTE	16.03.2024
13	Sannidhi Babaso patill	Sustainable construction	SITCOE	23.04.2024
14	Sannidhi Babaso patill	Arch Tech 2024	Association of Engineers and architects	24.02.2024
15	Sakshant Devappa mane	Apti King	ADCET Ashata	23.04.2024
16	Simaran Shashikant Kamble	Quiz	JJMCOE	06.04.2024
17	Simaran Shashikant Kamble	Paper presentation	SITCOE	23.04.2024
18	Akshpak mujawar	Clash of CAD	Walchand COE	23.03.2024

- **OUR PROUD TOPPERS- 2023-24 (SEM-II)**

Sr. No.	Class	Name of student	Marks (CGPA)
1	B. Tech Civil	PATIL DIGVIJAY DAMODAR	8.69
2		PATIL SONALI SHRIKANT	8.62
3		PACHORE PRAGAT DEVANAND	8.42
1	TY Civil	KURDE ADITYA CHANDRAKANT	9.21
2		MORE YASH VITTHAL	8.41
3		SHEJAL PRATHAMESH SANJAY	8.20
1	SY Civil	PATIL VEDIKA SADASHIV	8.91
2		VADAR KIRAN RAMA	8.09
3		SHINDE SAMRUDDHI SANJAY	8.00

- **PERSONALITY:**

SHAKUNTALA BHAGAT: (INDIA'S FIRST WOMAN CIVIL ENGINEER)

Shakuntala Bhagat (6 February 1933 – 14 October 2012), was the first woman civil engineer in India. Shakuntala Joshi was the daughter of bridge engineer S. B. Joshi (1906–1991). In 1953, she became the first woman to earn a civil engineering degree at Veermata Jijabai Technological Institute in Mumbai. She earned a master's degree in civil and structural engineering at the University of Pennsylvania.

Bhagat was assistant professor of civil engineering and head of the Heavy Structures Laboratory at the Indian Institute of Technology in Mumbai for much of the 1960s. In 1970, she and her husband founded their own firm, Bhagat Engineering; they also founded Quadricon, a bridge construction firm specializing in a patented prefabricated modular design. She worked on design and construction of hundreds of bridges around the world, including projects in the United States, Germany, and the United Kingdom. She worked on concrete research for the Cement and Concrete Association of London.

Bhagat was a member of the Indian Road Congress and a fellow of India's Institute of Engineers. In 1972, the Bhagats received an award from the Invention Promotion Board, for their Unishear

connectors. In 1993, she was recognized as the Woman Engineer of the Year Shakuntala Joshi married fellow civil engineer Anirudha Shivprasad Bhagat. She died in 2012, aged 79.

India’s First Female Civil Engineer Built 69 Bridges From Kashmir to Arunachal Pradesh: India's first female civil engineer, Shakuntala A Bhagat, pioneered many innovative designs and founded Quadricon — a Mumbai-based construction firm that's designed 200 bridges across the world, including UK, USA and Germany.

In 1953, Shakuntala A Bhagat, the daughter of a bridge engineer was the first Indian woman to obtain a civil engineering degree from Veermata Jijabai Technological Institute in Mumbai. She was the pioneer to research and develop bridge superstructures. Along with her husband, Anirudha S Bhagat, who was a mechanical engineer, the duo jointly evolved the first-ever total systems approach in this field. This involved using standardised, modular parts applicable across various types of bridges of different traffic widths and load-bearing, merely through permutations during assembly. The Quadricon steel bridges are popularly found in the Himalayan region where other bridge technologies are impossible to implement.

INCREDIBLE MODERN MARVELS OF CIVIL ENGINEERING

Civil engineering tends to be massive in scale by its very nature, but some civil engineering projects are so impressive that they stretch the imagination of what is possible.

Here are a few of the world's most inventive, astounding, and crazy feats of civil engineering that should serve as an example to all civil engineers:

1. SIGNATURE BRIDGE (Delhi, India)

The Signature Bridge located in Delhi spans the Yamuna River. The bridge is 675 metres long and 35 metres wide, with a 154-metre-high pylon that serves as an observation deck for visitors. Inaugurated in 2018, it has several modern technologies, including sensors to monitor wind speed and traffic. The Signature Bridge is a cantilever spar cable-stayed bridge which spans the Yamuna river at Shourya section, connecting Wazirabad to East Delhi. It is India's first asymmetrical cable-stayed bridge. The pylon of the Signature bridge is the tallest structure in Delhi and is double the height of Qutub Minar with its 154-metre high viewing box, which acts as selfie points for visitors. It shortens the travel time between north and northeast Delhi. The bridge is a Cantilever spar cable-stayed bridge, a type of Cable-stayed bridge in which cables are in a combination of radial and semi-harp arrangement; cables are spaced apart on the pylon, like the harp design, but connected to one point or a number of closely spaced points on the deck. The dynamically shaped pylon consists of 2 inclined columns, which are rigidly connected to the driving lanes and bend mid-way. The upper portion of the pylon anchors the back-stay cables as well as the main-span cables and the self-weight of the pylon balances out the self-weight of the superstructure through the eccentric location of its center of gravity with respect to the pivot point of the pylon footing, reducing the load on back-stay cables which are fewer in number converged from the main-span cables. The bridge is 675 meters long and 35.2 meters wide. Built on the Yamuna river, this bridge connects east Delhi to Wazirabad. Tourists can be transported to the top of the main pillar, which is 154 m high, from where distant views of North Delhi can be seen.

2. THE VENICE TIDE BARRIER PROJECT (Venice, Italy)

MOSE is a project intended to protect the city of Venice, Italy, and the Venetian Lagoon from flooding. The project is an integrated system consisting of rows of mobile gates installed at the Lido, Malamocco, and Chioggia inlets that are able to isolate the Venetian Lagoon temporarily from the Adriatic Sea during acqua alta high tides. Together with other measures, such as coastal reinforcement, the raising of quaysides, and the paving and improvement of the lagoon, MOSE is designed to protect Venice and the lagoon from tides of up to 3 metres (9.8 ft). Currently it is raised for tides of more than 110 centimetres. The Consorzio Venezia Nuova is responsible for the work on behalf of the Ministry of Infrastructure and Transport – Venice Water Authority. Construction began simultaneously in 2003. On 10 July 2020, the first full test was successfully completed, and after multiple delays, cost overruns, and scandals resulted in the project missing both its 2018 completion deadline (originally a 2011 deadline) and its 2021 deadline, and is now to be finished in 2025. On 3 October 2020, the MOSE was activated for the first time in the occurrence of a high tide event, preventing some of the low-lying parts of the city (in particular piazza San Marco) from being flooded. In 2020, the

experts who had conceived a set of three floodgates separating the Adriatic Sea from Venice estimated that each year they would have to raise the floodgates 5 times. Within two years after the inaugural raising of the floodgates, MOSE was activated 49 times.

3. STATUE OF UNITY (Gujrat, India)

The Statue of Unity is the world's tallest statue, with a height of 182 metres (597 feet), located near Kevadia in the state of Gujarat, India. It depicts Indian statesman and independence activist Vallabhbhai Patel (1875–1950), who was the first deputy prime minister and home minister of independent India and an adherent of Mahatma Gandhi. Patel is highly respected for playing a significant role in the political integration of India. The statue is located in Gujarat on the Narmada River in the Kevadiya colony, facing the Sardar Sarovar Dam 100 kilometres (62 mi) southeast of the city of Vadodara. The project was first announced in 2010, and construction started in October 2013 by Indian company Larsen & Toubro, with a total construction cost of ₹27 billion (US$422 million). It was designed by Indian sculptor Ram V. Sutar and was inaugurated by the Prime Minister of India, Narendra Modi, on 31 October 2018, the 143rd anniversary of Patel's birth.