Shri Shamrao Patil (Yadravkar) Educational & Charitable Trust's

SHARAD INSTITUTE OF TECHNOLOGY, COLLEGE OF ENGINEERING

Yadrav (Ichalkaranji), Dist.-Kolhapur (Maharashtra)

NBA Accredited Programmes · NAAC 'A' Grade Institution · An ISO 9001 : 2015 Certified Institute

AN AUTONOMOUS INSTITUTE

Hon. Dr. Rajendra Patil (Yadravkar)
Chairman
Shamrao Patil (Yadravkar)
Education & Charitable Trust

Hon. Mr. Anil Bagane
Executive Director
Shamrao Patil (Yadravkar)
Education & Charitable Trust

Dr. S. A. Khot
Principal

Department of Civil Engineering

"STHAPATHYA VAARTHA"

(2021-2022)

Vol: 7 Issue: 1

Inside this issue

Department of Civil Engineering

"Sthapathya Vaartha"

(2021-2022)

Vol: 7 Issue: 1

Inside this issue

HOD MESSAGE

I am Happy to interact with all stakeholders through this News bulletin “Sthapathya Vaarta “. This is outcome of all the activities conducted by the civil engineering department in the last semester. The editorial team has taken lot of efforts in collecting and nicely presenting it in the News bulletin. On behalf of Civil Engineering department, I am thankful to Exe. Director Shri Anil A. Bagane and Principal Dr. S.A.Khot for continuous motivation to bring all the activities at one level.

Dr. V.K. Naik

News Letter Faculty Coordinator

Asst. Prof. S.B. Chougule

Faculty Coordinator

It gives me an immense pleasure to publish the news bulletin of Civil Engineering Department. It is the reflection of various activities carried out by the department and contribution by the staff members and student of civil engineering Department.

News Letter Committee

Mr. Rushikesh Teke Mr. Sahil Salunkhe Mr. Sudhanshu Pise

Vision, Mission and Quality Policy and PEO OF Department

The vision of the Department

To be a centre 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

- 1 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)

PEO1: 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 engineering disciplines.

PEO2: Exhibit professional skills, ethical attitude and sensitivity towards society and environment

PEO3: Engage in life-long learning for successful adaptation to technological changes.

LIST OF DAAB MEMBERS

Following are the DAAB members of the department w.e.f. 01th Oct, 2021

Sr. No.	Name of person	Designation	Email
1	Dr. V.K. Naik.	Head of Department and Head of DAAB	drnaik982@gmail.com
2	Mr. R. M. Garud	Secretary, DAAB	ravindragarud65@gmail.com
3	Prof. Dr. S. N. Tande	Other Academic Institute Faculty-Member	sntande1@rediffmail.com
4	Prof. Dr. R. V. Raikar	Other Academic Institute Faculty-Member	rvraikar@gmail.com
5	Mr. S. S. Deshpande	Industry Person-Civil Engg-Member	subhash81086@gmail.com
6	Mr. Nitin Patil	Industry Person-Civil Engg-Member	nitinpatil2910@gmail.com
7	Mr. Dattatay Mhatugade	Parent-Member	---
8	Mr. Y. S. Patil	Programme Coordinator-Member	patil_yogesh1988@rediffmail.com
9	Mr. Yogesh Kulkarni.	Senior Faculty-Member	kulkarniyogeshu@gmail.com
10	Mrs. Pooja Bhokare	B.Tech Class teacher	---
11	Mr. S.B. Chougule.	Faculty-Member & T. E. Class Teacher Member	sbchougule@sitcoe.org.in
12	Mrs. Manali Sabale.	Academic Co-Ordinator-Member & Head Of PBL	manali.borgave6@gmail.com
13	Vivekanad Kabade	Alumni- Member	---
14	Akshay Lotake	Alumni- Member	Lotakeakshay25@gmail.com
15	Miss. Rutuja Kutwade.	Current student B.E. Class-Member	Rutujakutwade2001@gmail.com
16	Miss. Smruti Jugale.	Current student T.E. Class-Member	Smrutijugale@gmail.com

WELCOME TO NEW FACULTIES

Mrs. Varsha Bhat.

MTech (Environment)

Computer Efficiency-

1. MS-CIT with MS Office with best Proficiency and handling skills.

Mr. P.V. Deshpande.

MTech (Construction & Management)

Computer Efficiency-

1. MS-CET,Excel
2. Auto-cad
3. Revit architecture
4. MSP.

Mr. V.S. Patil.

MTech (Construction & Management)

Computer Efficiency-

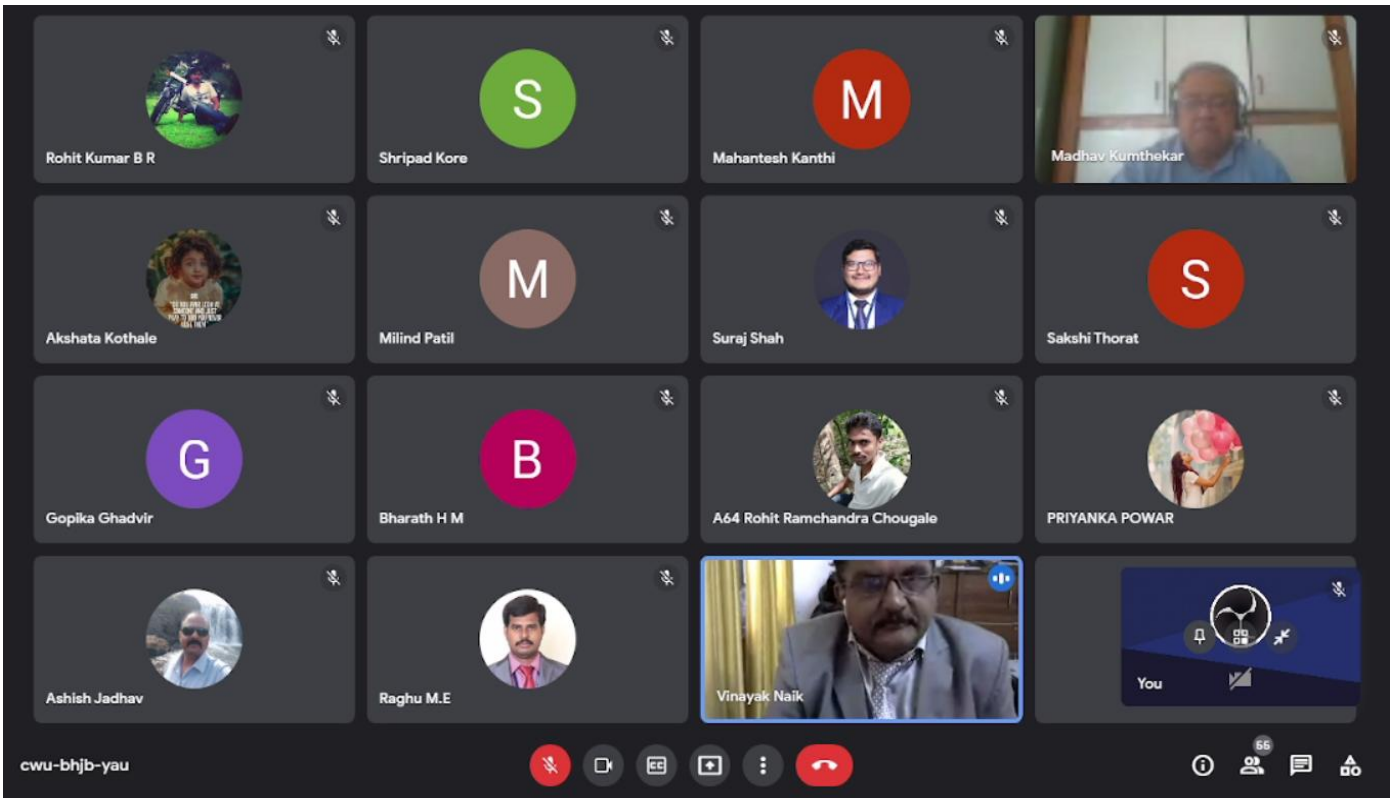
1. MS-Office
2. Auto-cad

STTP/WORKSHOP ORGANIZED BY DEPARTMENT

1. ISTE Approved One – Week Faculty Development Program On "Recent Advances 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 **"RECENT ADVANCES IN CIVIL ENGINEERING"** on the date **13/09/2021 to 17/09/2021**. Event was conducted in online mode.

Days	Name of Speaker	Topic Name	Date	Time
Day 1	Dr. S.A. Khot	Inauguration	13/09/2021	9.30 am
	Dr. M.B. Kumthekar	Sustainable Development	13/09/2021	11.30am to 1.00pm
Day 2	Dr. M.B. Kumthekar	Disaster Management	14/09/2021	9.30am to 11.00am
	Dr. A.B. Landage	Advance materials used in civil construction	14/09/2021	11.30am to 1.00pm
Day 3	Dr. A.B. Landage	Practical Difficulties In Concrete Technology & Testing On Harden Concrete	15/09/2021	9.30am to 11.00am
	Dr. Rajan Wankhade	Design aspects & air quality control aspects of flexible pavement	15/09/2021	11.30am to 1.00pm
Day 4	Dr. D.S. Pawar	Advances in transportation engineering	16/09/2021	9.30am to 11.00am
	Dr. Rajan Wankhade	Use of artificial sand for construction	16/09/2021	12.00pm
Day 5	Dr. V.K Naik	Concept of green Building	17/09/2021	10.00am


Rohit Kumar B R
S
Shripad Kore
M
Mahantesh Kanthi
Madhav Kumthekar
Akshata Kothale
M
Milind Patil
Suraj Shah
S
Sakshi Thorat
G
Gopika Ghadvir
B
Bharath H M
A64 Rohit Ramchandra Chougale
PRIYANKA POWAR
Ashish Jadhav
Raghu M.E
Vinayak Naik
You
cwu-bhjb-yau

2. Various Activities in Department

Name of the Faculty- Mr. Sachin Nikam
Guest Lecture on 'Preparation of GATE 2022'

Name of the Faculty- Mr. V.N Randive
Workshop On 'STAD PRO'
Date- 04/10/2021 to 09/102021 at SITCOE, Yadrav

Name of the Faculty- Mr. Arun Chandramohan
Guest Lecture on 'Career Opportunities in Construction, Real Estate, Infrastructure & Engineering Project Management.'

Date- 25/10/2021 at SITCOE, Yadrav

3. Faculty Publications

Sr. No	Title of Paper	Name of Author	Title of Journal / Conference	Year of Publication
1	Phytorid Technology for Treatment of Sewage	Mr. S. B. Chougule	IJARSCT	Aug 2021
2	Use Of Recycled Plastic Wastein Flexible Pavement.	Mr. Y.S.Patil	IJPRET	July 2021
3	"Use Of Rubber Tyre Waste As An Effective Construction Material In Flexible Pavement	Mr. Y.S.Patil	IJARSCT	Aug 2021
4	Basic Civil Services – Pixel Services	Mrs.A.R. Kothale	IJARSCT	Aug 2021
5	Critical Analysis Of Krishna Sub-Basin Flood-2019	Mrs.A.R. Kothale	IJARSCT	Aug 2021

4. Our proud Toppers- 2020-21 (SEM-II)

Sr.No	Name of student	Marks (%)
	B.E.(Civil)	
1	Gaurav Nanasaheb Bobade	9.91
2	i. Mrunali Anil Dabade ii. Arpita Rajendra Chougule	9.89
3	Shivani Laxman Pawar	9.87
	TY (Civil)	
1	i. Rutvik Shashikant Kutwade ii. Sammed Paygonda Patil.	9.93
2	i. Atharv Bajarang Tashildar. ii. Aditya Dattatray mhatukade	9.90
3	i. Shrutika Dipak Gawade. ii. Pratik Prakash Bhatmare. iii. Amit Anil Patil.	9.87
	SY(Civil)	
1	Mukta Nandkishor Joshi	9.72
2	i. Abhishek Ashok Kadam ii. Parth Amol Aitwade	9.66
3	Vaishali Gopal Zanwar	9.65

5. CESA COMMITEE- AY -2021-22 –SEM-I

Ms. P.A. Bhokare

Faculty coordinator (CESA)

Mr. Sourabh Sawant

President

Mr. Kalpesh Magdum

Vice-President

Ms. Revati Chougule

Treasurer

Mr.Santosh Chavan

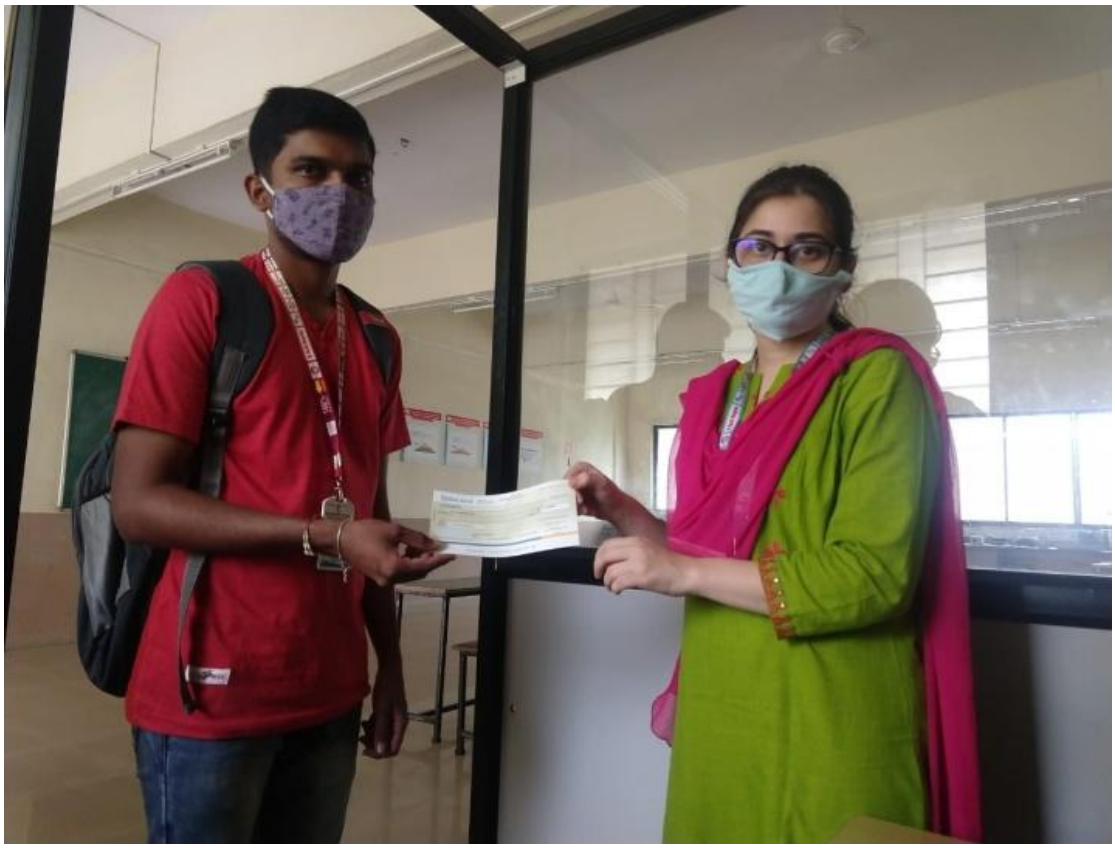
Treasurer

5.1 Summary of Activities carried out by CESA- AY2021-22

Sr. No.	Name of Activity	Date & Venue
1	Teacher's Day	05/07/2021
2	Orphanage Visit	19/09/2021
3	Impetus	23/10/2021

5.2 Photo of CESA activities

Orphanage Visit on 19/09/2021



Impetus event arranged on 23/10/2021

6. Personality

Mr. Rahul Talele

CEO of Kolte-Patil Developers

Kolte-Patil Developers has announced changes in its leadership. Yashvardhan Patil, currently the company's Group CEO, has been elevated to the position of Joint Managing Director with effect from September 08, 2021. Rahul Talele, currently Business Head – Pune, has been appointed as the company's Group CEO with effect from September 08, 2021.

Rajesh Patil, Chairman and Managing Director, Kolte-Patil Developers, commented, "There will be many exciting opportunities in the Indian real estate space in the coming years with increasing consolidation and formalization. With the new leadership matrix in place, I am sure Yash, Rahul and the KPDL team will ensure our Company's sustained success and lead it to new heights."

Yashvardhan Patil, Joint Managing Director, Kolte-Patil Developers, commented, "It is an honour to take on this new role and partner with our Chairman and the board to write KPDL's next chapter. I thank the Board for their continued support and confidence and look forward to their continued guidance. I would like to congratulate Rahul on his appointment as Group CEO. I have worked closely with Rahul over the last several years during which time he has delivered excellent results at the Life Republic, Pune and Mumbai. We will continue to work together with all our colleagues, customers, partners and shareholders with a common objective to establish the Company as one of the leading real estate developers in the country."

Rahul Talele, Group CEO, Kolte-Patil Developers, added, "I feel privileged to be entrusted with this important responsibility and would like to thank the Board for the confidence bestowed upon me. It

has been a pleasure working closely with our Chairman, Yash and the entire team over the last several years. I am very inspired by the legacy of Kolte-Patil Developers. I look forward to building on the Company's robust business platform, brand salience and long-standing relationships to create sustainable, long-term value for our stakeholders."

Rahul Talele joined KPDL as a Deputy Project Director in 2010. Since then, he has been instrumental in driving various strategic initiatives including the Company's entry into the affordable housing segment, expansion into the Mumbai redevelopment market as well as the scale-up delivered in the Life Republic Township. Before joining KPDL, Rahul was part of a leading Private Equity fund focused on real estate investments. He holds a Masters in Management Studies (MMS) degree with a specialization in Finance from Jamnalal Bajaj Institute of Management Studies and a Bachelor of Engineering degree in IT from Bharatiya Vidya Bhavan's Sardar Patel College of Engineering, Mumbai.

7. 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 some of the craziest, innovative, awe-inspiring Civil Engineering marvels that are an inspiration to all Civil Engineers across the world:

1. Millau Viaduct (Millau, France)

Record it breaks: tallest cable-stayed road bridge with its spectacular silhouette lines—somewhat reminiscent of the St. Louis Gateway Arch–The Millau Viaduct, which spans across the valley of the River Tarn near Millau in southern France, is one of the most impressive engineering ventures in the world. The bridge's highest tower soars to 1,125 feet, making it the tallest cable-stayed road bridge in the world. Interestingly, the Millau Viaduct's tallest towers surpass the Eiffel Tower (986 feet) and are almost as tall as the Empire State Building (1,250 feet). It is the 12th highest bridge in the world at 890 feet high below road deck (The Gateway Arch is 630 feet tall) and spans 8,071 feet (1 ½ miles).

The Millau Viaduct, completed in December 2004, was constructed to alleviate congested traffic on the route from Paris to Barcelona during the summer vacation months. This modern engineering marvel was developed by French engineer Michel Virlogeux and British designer Norman Foster.

Remarkably the Millau Viaduct took only took three years to complete. Typically a cable-stayed road bridge is built in sections and then lifted and put into position with cranes. Since the bridge was close to 900 feet high, a new technique had to be used. After building the towers, engineers constructed the roadway on either side of the towers and then rolled the two sides into the center. The new technique carried several engineering risks but proved to be efficient in constructing the roadway.

2. National Stadium a.k.a. “Bird’s Nest” (Beijing, China)

Record it breaks: World’s largest steel structure

Nicknamed the Bird’s Nest for its intricate shape and lattice-like design, this astonishing structure looks more like a public work of art than an Olympic stadium. Designed by the Swiss architects Jacques Herzog and Pierre de Meuron, the Bird’s Nest was built for the 2008 Olympic Games and Paralympics and seats 80,000 people. The elaborate design incorporates Chinese symbols and mythology. Consisting of about 26 miles of unwrapped steel, the stadium is made up of two independent frames that are set 50 feet apart—an inner concrete red bowl for seating and an outer steel frame weighing 42,000 tons. The original design called for a retractable roof. That was later removed from the plans so the structure could more easily meet seismic requirements and also for budgetary reasons.

This recent engineering wonder is one of the most energy-efficient and environmentally friendly stadiums in the world. During the winter, underground geothermal pipes heat the indoor part of the stadium. Underground cisterns collect and store rainwater for irrigation and for use in restrooms.

3. Channel Tunnel

Record it breaks: World's longest stretch of underwater tunnel

The Channel Tunnel, also known as the Chunnel, is a 32- mile underwater rail tunnel that links Folkstone, England and Coquelles, France beneath the English Channel. A joint venture between England and France, construction on The Tunnel began in 1988 and was completed in 1994.

Recognized as one of the "Seven Wonders of the Modern World" by the American Society of Civil Engineers, The Tunnel's lowest point is 250 feet deep while the portion of rail underwater is 23.5 miles. Train speed reaches 100 miles per hour while a trip between the two cities takes only 20 minutes. The Tunnel plays a crucial role in connecting the two countries and serves the transportation needs of over seven million people a year who travel on the Eurostar trains.

The Tunnel is nothing short of a modern engineering marvel. Fires were a huge concern at the time engineers were building the tunnel. Therefore, the need for an emergency route was crucial. A system of three tubes makes up The Tunnel—two full-size tubes for rail traffic and one small tube in between for emergency access. The emergency tunnel was put to test when a fire on a train broke out a year after the tunnel was built. Thirty-one people were trapped and were able to escape safely using the emergency route.

4. Three Gorges Dam

The Three Gorges Dam is a hydroelectric gravity dam that spans the Yangtze River by the town of Sandouping, in Yiling District, Yichang, Hubei province, central China, downstream of the Three Gorges. The Three Gorges Dam has been the world's largest power station in terms of installed capacity (22,500 MW) since 2012. The dam generates an average 95±20 TWh of electricity per year, depending on annual amount of precipitation in the river basin.[7] After the extensive monsoon rainfalls of 2020, the dam's annual production nearly reached 112 TWh, breaking the previous world record of ~103 TWh set by Itaipu Dam in 2016.

The dam body was completed in 2006. The power plant of the dam project was completed and fully functional as of July 4, 2012. when the last of the main water turbines in the underground plant began production. Each main water turbine has a capacity of 700 MW. Coupling the dam's 32 main turbines with two smaller generators (50 MW each) to power the plant itself, the total electric generating capacity of the dam is 22,500 MW. The last major component of the project, the ship lift, was completed in December 2015.

As well as producing electricity, the dam is intended to increase the Yangtze River's shipping capacity. By providing flood storage space, the dam reduces the potential for floods downstream which have historically plagued the Yangtze Plain. In 1931, floods on the river caused the deaths of up to 4 million people. As a result, China regards the project as a monumental social and economic success, with the design of state-of-the-art large turbines, and a move toward limiting greenhouse gas emissions. However, the dam has caused ecological changes including an increased risk of landslides. Because of that, the dam has been controversial both domestically and abroad.

5. The Bailong Elevator (Zhangjiajie, China)

The Bailong Elevator (Chinese: literally Hundred Dragons Elevator) is a glass double-deck elevator built onto the side of a huge cliff in the Wulingyuan area of Zhangjiajie, People's Republic of China that is 326 m (1,070 ft) high. It is claimed to be the highest and heaviest outdoor elevator in the world.[3] Construction of the elevator began in October 1999, and it was opened to the public by 2002.[3] The environmental effects of the elevator have been a subject of debate and controversy, as the Wulingyan area was designated a World Heritage Site in 2002. Operations were stopped for 10 months in 2002–2003, reportedly due to safety concerns, not environmental ones.

On 15 July 2015, the elevator was officially recognised by Guinness World Records as the world's tallest outdoor elevator.

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