



PIMPRI CHINCHWAD EDUCATION TRUST'S
PIMPRI CHINCHWAD COLLEGE OF ENGINEERING
AND RESEARCH



Civil Department's
Tech-MAGAZINE



2022-2023

▶ **Contents**

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- ❑ **Challenges and Opportunity**
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DEPARTMENT VISION

To be the spearhead of Civil Engineering Education, imparting exhaustive know-how to create proficient and accomplished global technocrats.

MISSION OF DEPARTMENT

- **M1: To upgrade continuously, to develop state-of-art laboratories and advanced computational facilities and be ever resourceful to disseminate contemporary knowledge.**
- **M2: To inculcate the zeal for research and innovation and to improve the quality of education and research.**
- **M3: To enforce rigorous appraisals so as to identify strengths and key competencies.**
- **M4: To enhance industry interaction to develop competent entrepreneurs and employable professionals.**
- **M5: To cultivate ethics, social awareness, soft-skills and appreciation for cultural diversity to evolve a truly global community.**

From HOD's desk

It gives me immense pleasure to present the E Magazine of the department, an illusive boundary of faith trust worthiness and affection. It is the talent and outcome of our students which is reflected through this. This is one of the best platforms for our students to present multifaceted personalities and innovative ideas. Our magazine is balanced collection of technical activities, placement progress, departmental activities, poems,stories,academic achievement, NSS activities etc.

I thank all the students for their wonderful response and enthusiastic participation without whom this would not have been possible. Last but not the least I thank my E Magazine team without whom this would be dream only. I respect their efforts and really proud of them.



Dr. Sudarshan S. Bobade

Magazine coordinator's



Prof. Ranjeet Sabale
Faculty Coordinator



Student coordinator
Ashish Lohar

Introduction

- ▶ Welcome to the inaugural edition of "The Civil Engineer's Chronicle," your gateway to the ever-evolving world of civil engineering. In these pages, we embark on a journey through the intricate, awe-inspiring, and dynamically transforming domain of civil engineering. This magazine has been meticulously crafted to serve as a beacon of knowledge, inspiration, and innovation for students, educators, professionals, and enthusiasts in the field of civil engineering.

▶ India – Civil Engineering Sector

For a developing country like India, infrastructure is predominant for the economic progress of the country. With India's GDP projected at 7.8 per cent in 2019, skilled professionals are the need of the hour to achieve a continued progression. Being a capital-intensive industry, construction is an imminent contributor to the national economy as the range of consumers of the construction market has varied over the years.

- ▶ As per industry estimates, the size of India's construction industry is expected to be USD 1 trillion by 2030 and contribute to 13 per cent of the country's GDP by 2025.
- ▶ Considered as the fastest growing industry, construction is poised to become the largest employer by 2022, employing more than 75 million people.
- ▶ With close to 1.5 million engineers graduating in India every year, the country needs approximately 4 million civil engineers on an average, over the next decade, to deliver potential real estate space and planned infrastructure.

- ▶ **Market Size and Growth Potential:**
- ▶ Civil engineering industry employs over 40 million people in India
- ▶ Contributes 10% to India's GDP
- ▶ Expected to grow due to government initiatives and demand for infrastructure
- ▶ Construction industry projected to grow at 5.6% CAGR during 2021-2025

What Is The Future Of Civil Engineers In India in 2023?



Challenges Facing the Industry

Shortage of skilled professionals

Ageing infrastructure in need of upgrades and repairs

Complex regulatory environment

Future Civil Engineering Prospects in

India:

Automation, artificial intelligence, and building information modeling (BIM) are assisting in addressing industrial difficulties and creating new chances for growth and development.

Additionally, opportunities for international collaboration might assist in bringing in fresh ideas and resources to help the industry grow, which also provides an adequate number of **job opportunities for civil engineers from India**. Overall, the **future of civil engineering** in India is promising, with great opportunities for professional advancement and development.

Major Current Projects

SL. NO.	MAJOR CURRENT PROJECTS UPTO SEPTEMBER 2022 (DOMESTIC)	PROJECT VALUE (₹ Cr.)
1	<p>EXECUTION OF VARIOUS PROJECTS FUNDED UNDER RKVY RAFTER IN COASTAL DISTRICTS OF KARNATAKA.</p> <p>CLIENT: Department of Fisheries, Bangalore</p>	1100.00
2	<p>CONSTRUCTION OF 36 NOS. EKALABYA MODEL RESIDENTIAL SCHOOL (EMRS) AT VARIOUS LOCATIONS IN GUJARAT, MAHARASHTRA AND ANDHRA PRADESH. (PMC).</p> <p>CLIENT: National Education Society for Tribal Students (EMRS Division), Ministry of Tribal Affairs, Govt. of India, New Delhi.</p>	720.00
3	<p>JOINT DEVELOPMENT OF HIG/MIG/ RESIDENTIAL CUM 5 STAR CLUB COMPLEXES AT AGARTALA CITY.</p> <p>CLIENT: Sikaria Mega Food Park Pvt. Ltd. (A SPV under Ministry of Food Processing Industries).</p>	700.00
4	<p>CONSTRUCTION OF 150 SEATS GOVERNMENT MEDICAL COLLEGE, 650 BEDDED HOSPITAL AND ALLIED BUILDINGS AT DISTT. GONDIA, MAHARASHTRA. (ON PMC BASIS).</p> <p>CLIENT: Medical Education and Drugs Department, Govt. of Maharashtra. New Mantralaya, Mumbai</p>	689.47
5	<p>WIDENING TO SIX LANE OF EXISTING FOUR LANE JETPUR-GONDAL-RAJKOT SECTION FROM KM 117.600 TO KM 185.00 NATIONAL HIGHWAY NO. 27 IN THE STATE OF GUJARAT ON EPC MODE UNDER BHARATMALA PARIYOJANA.</p> <p>CLIENT: National Highways Authority of India, New Delhi.</p>	614.45

- ▶ **Technical Capabilities
of Civil Engineering
Department**



▶ Enhancement in Quality education

Our three faculty members have completed their PhD and few are at the completion stages



Dr. Mayura M Yeole

Designation: Assistant Professor



Dr. Sahil S Salvi

Designation: Assistant Professor



Dr. Sushant V. Waghmare

Designation: Assistant Professor

TRAINING & PLACEMENT

Department: Civil Engineering



Mr. Sarang Vilas Pawar
KPIT, Cognizant &
Capgemini
Package-4.5 (LPA)



Mr. Abhishek Taware
LTI
Package-4 (LPA)



Mr. Vikas Uttamrao
Thombare
KPIT & Capgemini
Package-4.5 (LPA)



Mr. Nikhil Sanjay
Sahadev
Capgemini
Package- 4.25 (LPA)



Mr. Om Nanassheb
Tambe
TCS, Capgemini &
Cognizant
Package- 4.25 (LPA)



Mr. Ganesh Gangaram
Banpatte
KPIT, Cognizant &
Capgemini
Package-4.5 (LPA)



Mr. Prajwal Amrendra
Walke
Cognizant
Package-4 (LPA)



Ms. Samruddhi Kiran
Kale
Cognizant
Package 4 (LPA)



Mr. Anuj Anil Jadhav
Capgemini & Cognizant
Package- 4.25 (LPA)



Ms. Tejal A. Nanswate
Cognizant
Package- 4 (LPA)



Ms. Sayali S. Inde
Capgemini
Package- 4.25 (LPA)



Mr. Nishant Patil
Newgen
Package-4 (LPA)

TRAINING & PLACEMENTS:



Mr. Gaurav Kailas
Avaghade
Cappgemini,DTDC
Package- 4.25 (LPA) &5-
8 (LPA)



Mr. Rahul R. Deokar
Newgen
Package-4 (LPA)



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Cognizant
Package-4 (LPA)



Ms. Avantika Kishorrrao
Thosar
TCS
Package-3.36 (LPA)



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Package- 4 (LPA)
Knest Manufacturers LLP
Package- 3 (LPA)



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Cognizant
Package- 4 (LPA)



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Cappgemini
Package- 4.25 (LPA)



Ms. Dhanashree R.
Navale
TCS
Package- 3.36 (LPA)



Mr. Saurabh Dattatraya
Veer
TCS
Package- 3.36 (LPA)



Mr. Onkar Baliram Pawal
Cognizant
Package- 4 (LPA)



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Cappgemini, Verzeo
Package- 4.25 LPA



Mr. Piyush Dadasrao
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Capgemini
Package- 4.25 LPA



Mr. Gupta Shubham
Anilkumar
Verzeo
Package- 4 -5 LPA



Abhishek Sanjay Bangale
Verzeo, Acmegrade
Package- 4 -5 LPA



Diya Kherudkar
Acmegrade
Package- 4 -6 LPA



Mr. Sanjay Mane
Knest Manufacturers LLP
Package- 3 (LPA)



Mr. Dhiraj Mahajan
DTDC
Package- 5-8 (LPA)



Mr. Aniket S Mahade
Knest Manufacturers LLP
Package- 3 (LPA)



Devashree patil
Assistant Lecturer
Akash BYJUS
Package- 7.25 to 9 (LPA)

PATENT PUBLISHED



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THE PATENT OFFICE

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तारीख / Date : 09/12/2021
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प्रमाणित किया जाता है कि संलग्न प्रति में वर्णित डिजाइन जो **GRATING FOR STORM DRAIN** से संबंधित है, का पंजीकरण, श्रेणी **23-01** में 1.Mrs. Priyanka Garg 2. Dr. Vaibhav Garg 3.Mr. Sudarshan Sampatrao Bobade के नाम में उपर्युक्त संख्या और तारीख में कर लिया गया है।

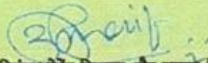
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निर्गमन की तारीख/Date of Issue : 09/03/2023


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PAGE No : 1

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RECEIPT NO : 52612

FILING DATE : 18/05/2022

BRANCH : Delhi

USER : sahil.salvi123

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1	Form-XIV	10287/2022-CO/L	52424	Study on Sewage Treatment and Reuse of Water: A Move towards the Conservation of Water	500
Amount in Words				Rupees Five Hundreds	500

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JOURNAL PAPERS PUBLISHED

Author Name	Topic	Journal	Year
Dr. S S <u>Bobade</u>	IMPACT OF VARIATIONS IN GEOTECHNICAL PROPERTIES OF BACKFILL MATERIAL ON THE SERVICEABILITY OF CANTILEVER EARTH RETAINING STRUCTURE: A CASE STUDY	Eur. Chem. Bull. 2023,(Special issues)	2022-23
Dr. S S <u>Salvi</u>	A FIBRE BASE WASTE FISHNET SHEET REPLACEMENT WITH ASBESTOS	Eur. Chem. Bull. 2023,(Special issues)	2022-23
Dr. S S <u>Salvi</u>	MORPHOMETRIC ANALYSIS OF SINA RIVER BASIN AT MIDSANGAVI USING RS & GIS	Eur. Chem. Bull. 2023,(Special issues)	2022-23
Dr. S S <u>Salvi</u>	EXPERIMENTAL INVESTIGATION ON WATER TREATED SLUDGE	Eur. Chem. Bull. 2023,(Special issues)	2022-23

INDUSTRIAL VISITS



SWM Plant, Moshi, PCMC

Date- May 19--2023

Target audience-TE civil

Industrial visits.



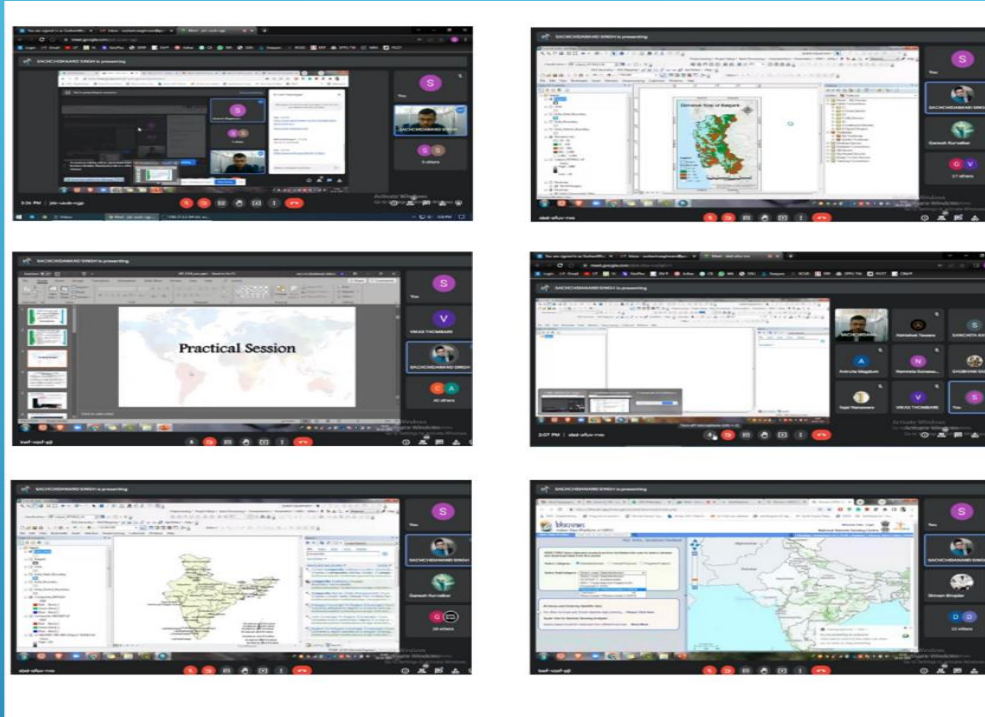
Matrix Construction
Date-22-03-2022
Target audience-BE civil

GUEST LECTURES:



Expert lecture on 'Planning and Building Permission' was conducted on 09/03/2022 in seminar hall and was guided by Mr. Dipak Ramdas Karpe, Deputy Engineer, Building Permission, Pimpri Chinchwad Municipal Corporation.

Guest lectures



Like to express our gratitude for the efforts **Mr. Sachidanand Sinha** have taken in conducting one week workshop on **applications of records sensing in civil engineering** in department of civil engineering dated from 21st to 25th March to 2022. The overwhelming response and the positive feedback from the participant list to the conclusion that program was successful event.

CESA ACTIVITIES:

: Expedition hunt was a technical event held under the umbrella of Technovate 2022 where there were about 15 plus entries for the screening test. As per the rule the 3 participants from the same group individually went for the aptitude test, quiz and image identification. These all 3 activities were going in parallel. The time span provided for the technical treasure hunt was 30 minutes. This event started with providing 1st clue to the participants, further they had to find out 6 clues for winning the event. With full enthusiasm and diagnostic approach, the participants started the search for finding next clue. Overall, this event contributed a lot in strengthening the character of individual through communication, leadership and team work skills.



CESA ACTIVITIES:

Technomanager was a technical event held under the umbrella of Technovate 2022 where there were about 7 groups of participants. As per the rule the chief guest gave a problem Statement on which students have given there solution. The group with best solution were given prize.

Winner- 1. Saurabh Veer, Rohit Borude, Onkar Pawal.

2. Roshan Bhoite, Ashutosh Mane, Vikas Suthar

3. Kalyani patil, Vishakha Desale, Sapna Bhoir, Amruta Magdum.



CESA ACTIVITIES:

: Expedition hunt was a technical event held under the umbrella of Technovate 2022 where there were about 15 plus entries for the screening test. As per the rule the 3 participants from the same group individually went for the aptitude test, quiz and image identification. These all 3 activities were going in parallel. The time span provided for the technical treasure hunt was 30 minutes. This event started with providing 1st clue to the participants, further they had to find out 6 clues for winning the event. With full enthusiasm and diagnostic approach, the participants started the search for finding next clue. Overall, this event contributed a lot in strengthening the character of individual through communication, leadership and team work skills.

Event Coordinators: 1. Abhishek Taware 2. Tejal Nanaware 3. Sanchita Katkar

Winners: 1. Jayant Chotaliya, Prathmesh Tule, Utkarsh Bhosle.

2. Shubham Bugad, Vaishnavi Chavan, Prathamesh Jadhav

3. Roshan Bhoite, Vikas Sutar, Ashutosh Mane.



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Sahil Sanjeev Salvi	Morphometric Analysis and Prioritization Of Vashishthi Watershed	L-103583/2021	24/05/2021	2020-2021
Sahil Sanjeev Salvi	Optimization Of Reservoir Operation for Irrigation Using Fuzzy Logic	L-104439/2021	14/06/2021	2020-2021

PATENTS

19	Mr. Sahil Sanjeev Salvi Mr. Sudarshan Sampatrao Bobade	PULL-TEST APPARATUS FOR IRON BAR REINFORCED CONCRETE TO MEASURE BOND STRENGTH	202221010580	28/02/2022	2021-2022
20	Mr. SUSHANT VILAS WAGHMARE Mr. AMAR DEVENDRA SHITOLE	COLLAPSIBLE SPEED BREAKERS FOR EMERGENCY VEHICLES	202221010583	28/02/2022	2021-2022
21	Mr. SATISH AVABA PITAKE Mr. SUDARSHAN SAMPATRAO BOABDE	CUSTOMIZED PEN WITH HAND SANITIZER GEL DISPENSER	202221010727	28/02/2022	2021-2022
22	Mr. SAHIL SANJEEV SALVI Mr. SUDARSHAN S. BOBADE	Smart Disinfection System for Escalator Handrail	202221010617	28/02/2022	2021-2022
23	MR. AKSHAY BHARAT RAHANE MR.	An Intelligent opening control system for windows	202221010615	28/02/2022	2021-2022
	S. BOBADE MR. AKASH G. GUNJAL				
24	Mr. ANAND BASAVARAJ KUDOLI	SLOPING BASE WATER STORAGE TANK	202221010592	28/02/2022	2021-2022
25	Mr. RAHUL SHAHAJI PATIL	Automated Water Discharge Unit for Residential Buildings	202221010611	28/02/2022	2021-2022
26	Mr. SAHIL SANJEEV SALVI	AUTOMATIC ADJUSTING CHAIR FOR COMFORTABLE SEATING WITHOUT USING HANDS	202221010577	28/02/2022	2021-2022
27	Dr. SAMEER SUBHASH SAWARKAR	ACCINDICATOR – VEHICLE ACCELERATION INDICATOR FOR ROAD CROSSING PEDESTRIANS	202221010529	28/02/2022	2021-2022
28	Mrs. MAYURA MILIND YEOLE	OOZING OUT MILK FROM CONTAINAR DURING HEATING	202221010529	28/02/2022	2021-2022
29	Mr. SUDARSHAN S BOBADE Mr. AMAR D SHITOLE Mr. SUSHANT V WAGHMARE	Automated Speed Limit Alert System	202221010507	28/02/2022	2021-2022
30	MR. AKASH GANGADHAR GUNJAL MR. SUDARSHAN	AUTO TRIMMING OFF OF CHARGING OF CHARGEABLE DEVICES AFTER ATTAINING REQUIRED (SET) PERCENTAGE	202221010596	28/02/2022	2021-2022

▶ Students Achievements



CERTIFICATE OF ACCOMPLISHMENT

THIS CERTIFICATE IS PRESENTED TO

vaishnavi holkar

UPON SUCCESSFUL COMPLETION OF
BUILDING INFORMATION MODELING
COURSE DATE: MONDAY, MARCH 13, 2023
LEARNING UNITS: 8

Bentley
Advancing Infrastructure

SIGNATURE 
AMIT TREHAN
DIRECTOR, USER LEARNING
BENTLEY SYSTEMS, INCORPORATED



PIMPRI CHINCHWAD EDUCATION TRUST'S
PIMPRI CHINCHWAD COLLEGE OF ENGINEERING AND
RESEARCH



**TECHNOVATE
2K23**



CERTIFICATE OF PARTICIPATION

THIS CERTIFICATE IS PROUDLY PRESENTED TO

Mr/Ms Ramul deokan Patil

for participating in Nimitti (Bridge Making), on the occasion of
'TECHNOVATE 2K23' organized by Pimpri Chinchwad College of
Engineering & Research, Ravet, Pune on 27th & 28th April, 2023.


PROF. TEVNI DHAMALE
FACULTY COORDINATOR


PROF. PRADEEP GAIKWAD
FACULTY COORDINATOR

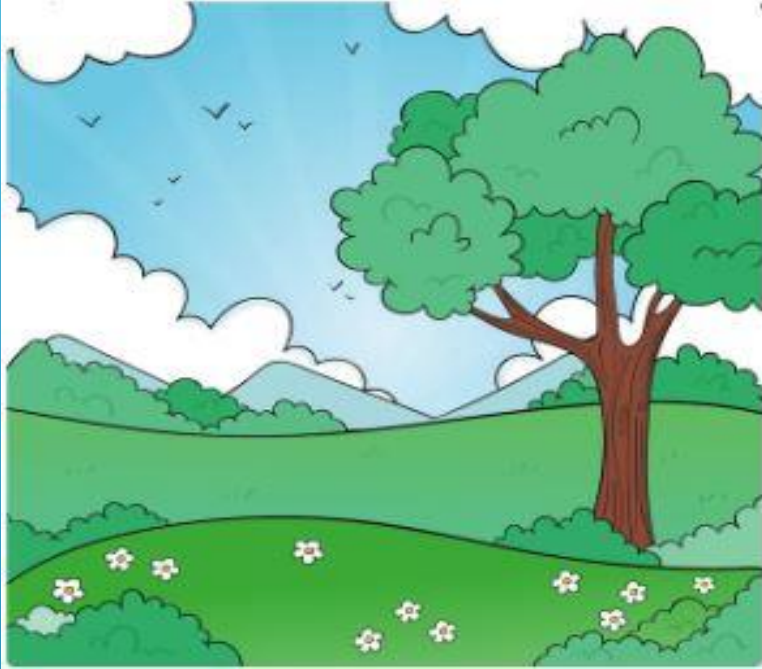

DR. HARISH TIWARI
PRINCIPAL PCCOEAR RAVET

NXG
ROBOTICS

DAG-BA
Engineering Skills

K KNOWN AERO

ARTS GALLERY



Sandhya Somvanshi
TE

Tejaswini Patil
TE





A KEY TO BUILD
SUSTAINABLE FUTURE

CIVIL ENGINEERING

*Thank you so much.
For reading*