



DEPT. OF CIVIL ENGINEERING

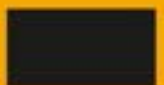
# KSHITIJ- TOUCHING NEW SKIES

**WE PROVIDE A PLATFORM TO OUR COMMUNITY MEMBERS TO ENHANCE,  
EXCEL & EMPOWER!**

**WE AT CIESA BELIEVE IN CONTINUOUS IMPROVEMENT AND PERIODIC  
CHANGE. WE ASPIRE TO DELIVER THE DEMANDS OF OUR COMMUNITY  
MEMBERS IN THE BEST POSSIBLE WAY!**

December 2019

Volume 5 (Issue 2)



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## **Achievements**

## **Vision of the Institute**

To serve the Society, Industry, and all the stakeholders through Value-Added Quality Education.

## **Mission of the Institute**

To serve the need of society at large by establishing state-of-the-art Engineering, Management, and Research Institute and impart Attitude, Knowledge, and Skills with Quality Education to develop individuals and teams with the ability to think and analyze right values and self-reliance.

## **Vision of the Department**

To be recognized as one of the leading department in respect of professional education and innovation in the western region.

## **Mission of the Department**

To develop a multidisciplinary approach to relate civil engineering challenges to social and human context through team spirit, the right attitude, morals, and higher education.

## **PEOs of Civil Engineering**

- I. To impart sound academic fundamentals among the students to formulate, analyze and solve civil engineering problems.
- II. To develop students' ability to adapt and apply recent trends in civil engineering.
- III. To prepare the students for the challenging needs of the civil engineering profession and higher academic pursuits.
- IV. To develop professional ethics among students for functioning as an individual or in a team for the betterment of society and the environment.

## **PSOs of Civil Engineering**

- I. The graduate will be able to apply necessary Civil Engineering knowledge, skillsets for quality construction work in infrastructural and industrial development.
- II. The graduate will be able to demonstrate skill sets required for entrepreneurs in civil engineering

## POs of Civil Engineering Department

**Civil Engineering Graduates will be able to:**

**1. Engineering knowledge:**

Apply the knowledge of mathematics, science, engineering fundamentals, and an engineering specialization to the solution of complex civil engineering problems.

**2. Problem analysis:**

Identify, formulate, review research literature, and analyze complex engineering problems reaching substantiated conclusions using first principles of mathematics, physics, chemistry, and engineering geology.

**3. Design/development of solutions:**

Design solutions for complex civil engineering problems and design system components or processes that meet the specified needs with appropriate consideration for public health and safety, and cultural, societal, and environmental considerations.

**4. Conduct investigations of complex problems:**

Use research-based knowledge and research methods including design of experiments, analysis, and interpretation of data, and synthesis of the information to provide valid conclusions.

**5. Modern tool usage:**

Create, select, and apply appropriate techniques, resources, and modern engineering and IT tools including prediction and modeling to complex Civil engineering activities with an understanding of the limitations.

**6. The engineer and society:**

Apply to reason informed by the contextual knowledge to assess societal issues like water management, waste management, air & water pollution, health, safety, legal and cultural issues, and the consequent responsibilities relevant to the professional engineering practice.

**7. Environment and sustainability:**

Understand the impact of the professional engineering solutions in societal and environmental contexts, and demonstrate the knowledge of, and need for sustainable development.

**8. Ethics:**

Apply ethical principles and commit to professional ethics and responsibilities and norms of the engineering practice.

**9. Individual and teamwork:**

Function effectively as an individual, and as a member or leader in diverse teams, and in multidisciplinary settings.

**10. Communication:**

Communicate effectively on complex engineering activities with the engineering community and with society at large, such as being able to comprehend and write effective reports and design documentation, make effective presentations, and give and receive clear instructions.

**11. Project management and finance:**

Demonstrate knowledge and understanding of the Civil engineering and Construction management principles and apply these to one's own work, as a member and leader in a team, to manage projects and in multidisciplinary environments.

**12. Life-long learning:**

Recognize the need for, and have the preparation and ability to engage in independent and life-long learning in the broadest context of technological change.

**MESSAGE FROM HOD**

It is rightly said that till date humans are on this planet, Civil Engineering will exist, to fulfill the basic and all kinds of infrastructural requirements of human beings. Civil Engineering mother and most significant branch of Engineering. A Civil Engineer is a most civilized personality; he/she handles all the challenges, natural or human-made problems, and provides effective solutions to them. To enrich these skills in our students, we have come with certain unique methodologies like on-site training by professional organizations, hands-on experience, site visits, guest lectures by government and private planners, consultants builders, and contractors. We provide a platform for their creative thinking, planning, designing, and execution of ideas. We also promote students for entrepreneurs, private & government jobs, and to opt for higher education, to enrich them with decision-making power.



- DR. SANDIP T. MALI  
HOD CIVIL ENGINEERING

**Editorial Team**




Editor in Chief  
Mr. Viraj Bhandari

Executive Editors  
Vedantika Taskar & Shubham Chaudhari

Associate Editors  
Dnyaneshwar Tandale & Kiran Shelar



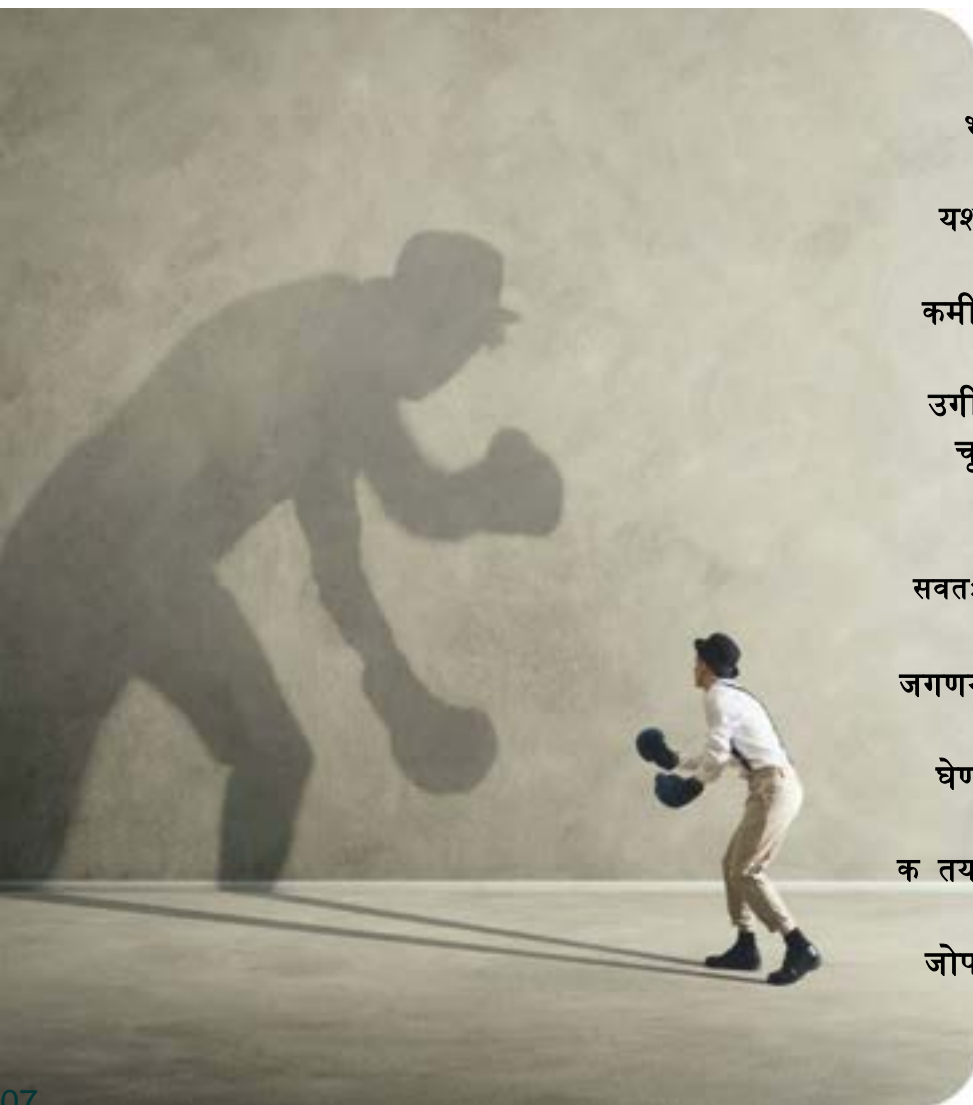


# ART AND CRAFT

06

## ददवारो का रंग...

ददवारो का रंगफफकाफफकासा लगता है  
कयूना जानेअब येघर ससर मकानसा लगता है  
तूथी तब यहांकेहर चीज मेजान थी  
ना जानेअब कयूसब बेजानसा लगता है...  
तनहाई मेकयूना जानेआँखो सेआसुननकलतेहै  
सब कुछ पाकर भी तेरेबन सब अधूरा लगता है  
और तेरी याद क बौछार है  
ना जानेसब होकर भी कुछ कमीसा लगता है...  
तेरी मुसकराहट ढूँढता रहेता हँम  
तेरा पता राह कैहर मुसाफर को पूँछता रहेता हँम  
जानेवक नेहमारेसाथ इतना बुरा सुलुखककया कय है तेरी याद को ससमेसेलपट बस  
चलता रहता हँम ...  
जब भी न द नही आती तेरी लोरी को याद करता हँम  
तेरेउस दलार और पयार को सहारा बनाकर जी रहा हँम  
सेतुझेअगलेजनम मेमेरी माँकेरप मेदवा मेमांगता हँम ...  
- वैषणवी शश दे(BE CIVIL)



तूलढ, तूलढ

तूलढ, तूलढ

भभतोस कशास संकटांना

ववसर नकोस

यश ममळत नसतेभभतयांना.

मागेवळून पाह नकोस

कमी तुझी कुणालाही दावूनकोस

तूलढ तूलढ

उगीच महणूनसवपेपाह नकोस.

चूक ची गोष जजरवूनकोस

असतय ममरवूनकोस

तूलढ तूलढ

सवतःला सवतः भोवती गगरवूनकोस.

शशक लढण संकटांशी

जगण्यात तयांशवाय मजा ना नाही

तूलढ तूलढ

घेण्यासाठी कवेतददशा दाही.

संकटांना जोशानेमहण

क तयाच्या बापालाही घाबरत नाही

मी लढेन मी लढेन

जोपर तयश काबीज होत नाही.

-मनजजतसस हगगरासेSE





**ANITA THOMBRE**  
**(BE CIVIL)**

**MRUNAL POPHALE**  
**(TE CIVIL)**





## मैती

ललहहताना दचकलेमन माझे,  
आणण अचानक तुझेनाव ओठांवर आले.  
तुझयामुळेमैती या शब्दास,  
सरा समोर मांडता आले...

मैती म्हणजेन बोलता सारेसमजणे  
जजथेबोलण्यास शब्दांची गरज न भासणे.  
मनानेदसरयाला आपलंमानणे.  
आकाशातूनपडणारया **FALLING STAR** कडे,  
ममतासाठ काहीतरी मनापासूनमाणणे  
ठेच लागतेसवतःला  
पण दःख समोरचयाला होणे..

'मैती' दोनच अकरेही,  
पण वजन ककती तयांचे?  
समोरचयाचेअशूपाहन,  
सवतःचेडोळेपाणावणारे...  
पतयेककणी समोरचयाचया सुखात,  
खुपसुखमानणारे...

जीवनाचया या रंगभूमीवर,  
सवतःची भूमका चोख ननभावणारे  
असेआहेमाझेममत मला सतत हसवणारे

कपट , लालची आणण भरपूरमाजलेलया  
या दननयेतपतयेककणी आनंदशोधणारे,  
पेमजजवहाळा आणण काळजीचा वरा वकरणारे,  
समुदाहन आवाढव आणण आकाशाहन उंच  
पगती करणयास भाग पाडणारे,  
असेआहेतमाझेममत,  
मला खूपकाही शशकवणारे.

-शशवानी कामत (SE CIVIL)





## ROHAN PATIL (BE CIVIL)

### बहाना

नद का बहना तो बस बहाना है  
सागर से ममलने जो जाना है।

पंछय का चहकना तो एक तराना है आपक  
मौजूदगी का एहसास जो करवाना है॥ कलल  
का खखलना तो बहाना है.

खुदको आपसे खुबसूरत जो बताना है॥ आँख का  
युंझुकना तो एक फसाना है। मन क बात को  
मन म छुपाना है॥ मन का मचलना तो एक  
बहाना है। आपक याद म जो खोना है॥ आपका  
हमसे रठना तो गवारा है। बादम मनाने तो हमेही  
आना है।

- सुदर नदेशमुख (TE Civil)

# Exam, Me & Mind Pop-ups

It is rightly said that the great jokes are written in the exams. New inventions of laws, formulas and theories are developed. The collaboration of science and song is done. Examiners can't stop laughing by reading such ultra legend papers.

Exam period is never love. But surely love for god is on peak. Love on exam increases twice once before it starts because it is PL time i.e. mini holiday and once it is over because it's holiday. When one hour study gives us best marks unexpectedly. When you feel yeh subject back lagega & you get all clear. The last 10 min is scene in which we literally seem to have 10 hand like Devimaa, covering huge paper.

Speed of writing in last 10 min =  $10 \times$  speed of writing in first 10 min

Engineers don't believe in regular study. They don't even fear exams. The ideology we believe is "Dar ke aage jeet hai". But for topper, fear 1/ no of days remaining. Topper have different fear of losing one mark and 0.01 CGPA.

We feel disgust when paper is not as per decode and points which we have cover last night.

When university keeps your subject back by one mark. Heart roars out, "Ek mark ki kimat tum kya jano University walo?"

Samane wala paper dekhe par khud ka paper na dikhaye gives anger. Jo question dikhai de par samaj nahi aaye aur jo samaj aaye par likh na paye gives great gussa.

Insem mai 12 and Endsem mai 28 gives peace for commeners. But for toppers, peace is when they solve two extra questions and still they get time to recheck the paper.

-Vedantika Taskar (TE civil)





**ONKAR PALEKAR**  
**(TE CIVIL)**

**VAISHNAVI SHINDE**  
**(TE CIVIL)**



## **India's Water Pollution Situation as a Time Bomb waiting to Explode ?**

India is facing a major problem of water pollution. Major sources of water pollution in India are untreated sewage, agricultural runoff, unregulated small scale industries, etc. It is said that almost 80% of water bodies in India are highly polluted. Due to such large amount of water pollution, people are becoming victims of diseases like cholera, tuberculosis, dysentery, jaundice, diarrhoea, etc.

Due to various kinds of pollutants dispatched in water bodies and large wastage of water, India is facing large scarcity of water. On 19 June 2019 Chennai city officials declared that the city has faced it's "Zero Water Day", as four main reservoirs supplying water to city had run dry. Water Pollution is one of the key causes of such awful conditions. Taking preventive measures to stop water pollution is not only the duty of Water Pollution Control Board, but every citizen should contribute equally from their end to avoid water pollution.

Instead of blaming government, each one of us has to avoid creating wastage of water and its pollution and thus spreading awareness about water pollution is very important for letting people understand the importance of water in our day to day life. Effluent from manufacturing industries can be treated and reused. Hence, proper management of wastewater becomes equally important, specially in urban areas.

Constructed wetland is an effective artificial method to treat municipal or industrial wastewater, grey water or storm water runoff. These are engineered systems that use natural functions vegetation, soil, and organisms to treat wastewater. Green building or sustainable building refers to both a structure and application of processes that are environmentally responsible and resource efficient throughout a building's life cycle. Green building practices aim to reduce environmental impact of building. It involves proper waste management of building by using Eco-friendly methods.

## **India's Water Pollution Situation as a Time Bomb waiting to Explode ?**

One of the suitable solution to treat wastewater in the large housing townships in the metropolitan cities is with the help of Packaged Sewage Treatment Plant (PSTP) whose responsibility of construction as well as O & M may be taken up by the residential colonies, builders-developers. It is easy to operate and is mostly based on gravity and requires very less energy.

The city of Kwinana, which is suburb of Perth, Australia, recently installed drainage nets in its water reserve, and the innovative filtration system has gone viral for being simple yet very effective. "The nets are placed on the outlet of two drainage pipes, which are located between residential areas and natural areas. This allows the nets to capture the gross pollutants carried by storm water from the local road network before those pollutants are discharged and contaminate the natural environment at the downstream end of the outlet area," Mayors Adams explained in a statement shared in the blog post. As India's Water Pollution Situation as a Time Bomb Waiting to Explode? It is time to take some steps forward for making our India Pollution Free.

**-TEAM CiESA**





# ACADEMICS



# SITE VISITS



## S.E. Civil

1. Site visits of SE Civil students at “Proposed residential Building by Maha Ratna Developers and Construction “at Jambe Pune under subject BTM on 19/07/2019 to study centerline marking for foundation trenches, plinth filling, and compaction.
2. Site visits for SE Civil students for Tachometric Contouring Project at Moshi, Pune on 14/09/2019 under subject surveying.
3. Site visits of SE Civil students at “Proposed School Building for City Pride School” at Ravet Pune under subject RCC on 10/10/2019 to study Reinforcement arrangement for the second Slab, Form-work of beams, and column for Parking Floor.



## T.E Civil

1. Site visits of TE Civil students at Pune Railway Station, Pune under subject IECT on 26/07/2019 to study components of a railway track and give a visual demonstration of points & crossings.
2. Site visits of TE Civil students at Pune Railway Station, Pune under subject SD-I on 26/07/2019 to study components of steel structures and give a visual demonstration of points and crossings.
3. Site visits of TE Civil students at Yedgaon Hydropower Plant, Narayan Gaon, Tal, Junner, Dist., Pune under subject FM-II on 19/09/2019 to study various components of the hydropower plant, functions of various components.
4. Site Visit of TE Civil students at Yedgaon Hydropower Plant, Narayan Gaon, Tal, Junner, Dist., Pune under subject SD-I on 19/09/2019 to study components of a Gantry Girder and its working principle in industrial building steel.



# SITE VISITS



## T.E. Civil

5. Site Visit of TE Civil students at India land Global Industrial Park, Hinjewadi. Pune, under subject SD-I on 27/09/2019, to study components of steel structures and PEB structures in Industrial Building Steel.
6. Site Visit of TE Civil students at India land Global Industrial Park, Hinjewadi. Pune, under subject ACT on 27/09/2019, to study components of steel structures and PEB structures in Industrial Building Steel.
7. Site Visit of TE Civil students at Surface Instruments Division, Indian Meteorological Dept. Shivaji Nagar, Pune, under subject HWRE on 30/09/2019 to study observatory, rain gauge for rainfall measurement, evaporimeter, anemometer were observed for measurement of evaporation, wind speed.



## B.E Civil

1. Site visits of BE Civil students at Sewage Treatment Plant, Kasarwadi, Pune under subject Environmental Engineering-II on 19/07/2019 to study the working of Sewage Treatment Plant.
2. Site Visit of BE Civil students at Precast India Plant near Wade Bolhai Village, Wagholi, Pune under subject ACT on 14/09/2019 to study India's biggest precasting factory.
3. Site Visit of B.E. Civil students at Municipal Corporation's Hot Mix Plant in Yerwada, Pune under subject Transportation Engineering on date 20/09/2019 to study the process of production of Hot Mix Asphalt used in road construction.
4. Site Visit of B.E. Civil students at Retaining wall, construction under Unique Group, L-Ville, Kiwale. Pune under subject SD-III on the date 23/09/2019 to study design of Retaining wall and water tank.





# SITE VISITS



## M.E. Civil Construction Management

1. Site Visit of M.E. Civil students at Precast India Plant near Wade Bolhai Village, Wagholi, Pune under subject ACT on 14/09/2019 to study India's biggest precasting factory, 40 Mt 6 crane and 30 Mt Rail mounted A-Frame Gantry cranes.



2. Site Visit of M.E. Civil students at "Jolly Maker Tower-1" at Nariman Point Mumbai, maintained by CONSTRO CHEM India Pvt. Ltd., Mumbai under Lab Practice-I on 28/11/2019 to study and observe the effect of seawater (salinity) on the structure and its damage due to salinity.



## Institute Social Responsibility (NSS and ISR Activities)

1. National Service Scheme (NSS) Unit of PCCOE conducted Tree Plantation drive at Bhakti Shakti Dehu Road on 28/07/2019 where 6 students participated, Blood Donation activity at PCCOE Reading Hall on 31/07/2019 where 25 students participated, Donation to Flood Affected People for Sangli and Kolhapur-Entire Department, Fitness Awareness Rally at PCCOE on 28/08/2019 where 10 students participated, Nirmalya Collection Drive at Ganesh Talav, Lohagadh Fort Cleaning, Malvali Railway Cleaning and Pavana River Cleaning Drive on 02/10/2019, Civil students participated in the event organized by Savitribai Phule Pune University to distribute the Neem Saplings and this event got registered in Guinness World Record Book.

2. ISR Cell Activity on Road Safety Program for Girls and Ladies staff by HONDA on 26/09/2019. 20 Girls participated from Civil Department.



# PROGRAMS ORGANIZED BY THE DEPARTMENT



## Workshop organized

1. Civil Engineering dept. successfully organized the ISTE Approved One Day Workshop on, “Effective Teaching Methodology of Engineering Mechanics” workshop mainly focuses on the content of the new syllabus as per FE 2019 course, to maintain uniformity in the content delivery and to explore the different methods of teaching for this subject on 27/07/2019.



2. Civil Engineering dept. successfully organized the ISTE Approved One Day Workshop on, “Effective Teaching Methodology of Audit Course I (Environmental Studies-I)” workshop mainly focuses on the content of the syllabus, to maintain uniformity in the content delivery and to explore the different methods of teaching for this subject on 24/08/2019.



## Guest Lecture organized

1. Guest Lecture organized for SE Civil under subject SA-I on the topic “Principal Stresses and Strains” by Dr. S. S. Parekar, Professor (AISSMS, College of Engineering, Pune) on 28/08/2019.

2. Guest Lecture organized for SE Civil under subject APDB on the topic “Introduction to Real Estate Sector” by Mr. Viraj Gawande, Director, Gawade Construction Group, Pune on 19/09/2019.



## INSTALLATION CEREMONY



## MODEL MAKING WORKSHOP DURING S.E. INDUCTION PROGRAM



## PCCOE IGS STUDENT CHAPTER





## IGNITING MINDS (GROUP DISCUSSION SESSIONS)



## OPEN MIC

## Tug of War & Lagori



## STHAPATYA 2019



## TEACHERS' DAY CELEBRATION



## POSTER & MODEL MAKING COMPETITION FOR B.E. STUDENTS



2019-2020

# ACHIEVEMENTS





# STUDENTS ACHIEVEMENTS

"Reuse wastewater, save pure water" idea (Mentor- Mr. R. S. Choudhari) won 2<sup>nd</sup> runner up prize from Solid Waste & Water Management track



1. BE Civil students Mayuresh Bajbalkar, Rushikesh Bangar, and Pratik Pawar secured 2<sup>nd</sup> runner positions in Innovate for Smart Pimpri Chinchwad competition at PCCOE held on 26/09/2019.

# STUDENTS ACHIEVEMENTS

## On Site Training

1. 5 students from BE and 4 students from TE Civil underwent 21 days internship program under Ratnarup Projects Pvt. Ltd in May-June 2019.
2. 10 students from TE Civil underwent 1 Month internship program under B.G. Shirke Construction Technology in May-June 2019.
3. 04 students from TE Civil and 6 students from SE Civil underwent 1 Month internship program under Lunkad Realty in May-June 2019.
4. 01 student from TE Civil underwent a 15days internship program under Photon Grafic & Innovations Pvt. Ltd. in May-June 2019.
5. 06 students from TE Civil underwent 1 Month internship program under Manik Developers, Pune in May-June 2019.
6. 01 student from TE Civil underwent 15 days internship program under Siya Construction, Pune in May-June 2019.
7. 01 student from TE Civil underwent 15 days internship program under Mayura Construction, Pune in May-June 2019.
8. 02 student from TE Civil underwent 15 days internship program under Maharatna Developers and Construction in May-June 2019.
9. 01 student from TE Civil underwent 1 Month internship program under Rushabh Properties, Pune in May-June 2019.
10. 01 student from TE Civil underwent 1 Month internship program under Avinash Hole Constructions, Pune in May-June 2019.
11. 01 student from TE Civil underwent 13 days internship program under Bhagwati Construction, Nashik in May-June 2019.
12. 05 students from TE Civil underwent 20 days internship program under S.S. Developers, Pune in May-June 2019.
13. 01 student from TE Civil underwent 20 days internship program under GKW Consultants, Srinagar J&K in May-June 2019.
14. 01 student from TE Civil underwent 1 Month internship program under Pruthvi Developers, Pune in May-June 2019.
15. 01 student from TE Civil underwent 15 days internship program under Wonder Construction, Aurangabad in May-June 2019.
16. 01 student from SE Civil underwent 15 days internship program under J. R. Bhalerao & Company, Pune in May-June 2019.

# STUDENTS ACHIEVEMENTS

## Placements

1. BE Civil student Sourav Bacchav got placed in Capgemini.
2. BE Civil student Kshitij Wagh got placed in Accenture.

## Participation and Awards

Sr. No	Name of the student	Year and Division	Event	Organized By	Prize Details
<b>TE</b>					
1	Renuka Kurepatil	TE	Paper Presentation	COEP, Pune	1 <sup>st</sup> Position
2	Sayali Mahajan	TE	Paper Presentation	COEP, Pune	1 <sup>st</sup> Position
3	Hrutuja Chaudhari	TE	Paper Presentation	COEP, Pune	1 <sup>st</sup> Position
4	Swapnil Walekar	TE	Innovate for Smart Pimpri Chinchwad	PCCOE, Pune	Participation
5	Sumedh Kharat	TE	Innovate for Smart Pimpri Chinchwad	PCCOE, Pune	Participation
6	Vedantika Taskar	TE	Innovate for Smart Pimpri Chinchwad	PCCOE, Pune	Participation
7	Pushkar Patil	TE	Innovate for Smart Pimpri Chinchwad	PCCOE, Pune	Participation
8	Abhishek Rajput	TE	Innovate for Smart Pimpri Chinchwad	PCCOE, Pune	Participation
9	Deepak Desai	TE	Mind spark 2019	COEP, Pune	2 <sup>nd</sup> Position
10	Amarnath Tayde	TE	Mind spark 2019	COEP, Pune	2 <sup>nd</sup> Position
<b>BE</b>					
1	Mayuresh Bajbalkar	BE	Innovate for Smart Pimpri Chinchwad	PCCOE, Pune	2nd Runner Up
2	Rushikesh Bangar	BE	Innovate for Smart Pimpri Chinchwad	PCCOE, Pune	2nd Runner Up
3	Pratik Pawar	BE	Innovate for Smart Pimpri Chinchwad	PCCOE, Pune	2nd Runner Up



# FACULTY ACHIEVEMENTS

Dr. S. T. Mali has mentored SIDDHAMRUTAM –Water Purification Technique in ‘Innovative for Smart Pimpri Chinchwad’ jointly organized by Pimpri Chinchwad Municipal Corporation, Pimpri Chinchwad Smart City Ltd. and Pimpri Chinchwad College of Engineering, Pune on 26/09/2019.



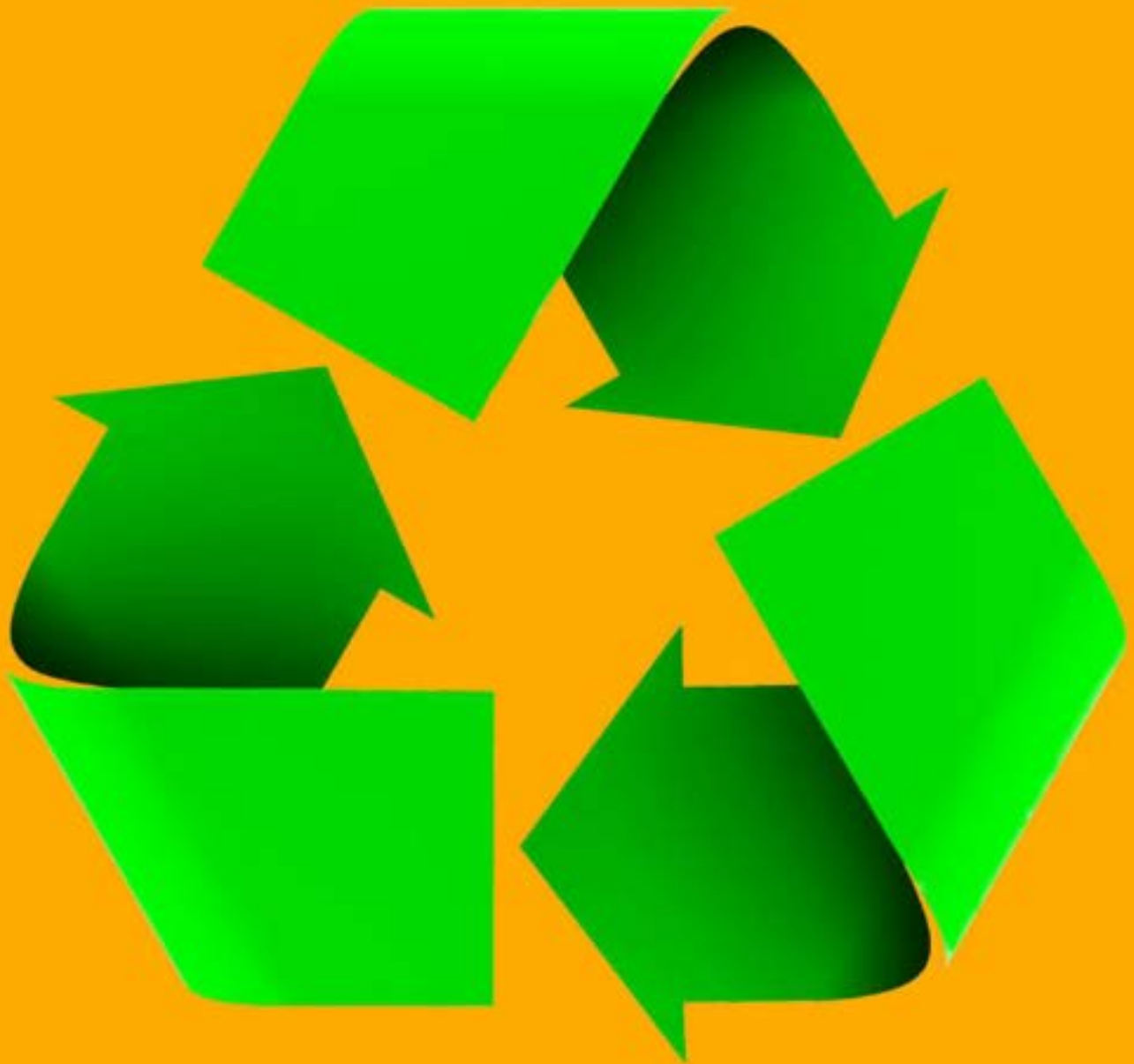
A. K. Gaikwad delivered a Guest Lecture in D Y Patil CoE and Research, Akurdi, Pune for SE Civil Engineering Students on the topic, “Curve Settings in Roads: Methods and Terminologies” on 16/09/2019.

# FACULTY ACHIEVEMENTS

Mr. S. P. Banne was invited as a guest speaker on the topic “Shear strength of soil” at PVPIT Bavdhan on 28/09/2019.



Mr. S. P. Gaikwad was invited as a guest speaker on the topic “Design of Flexible and Rigid pavements” at Zeel College of Engineering and Research on 05/10/2019.



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