

# Sharad Institute of Technology college Of Engineering Yadrav, Ichalkaranji

## " STHAPATYA VAARTA "

THE BIENNIAL NEWSLETTER OF CIVIL ENGINEERING DEPARTMENT  
( 2017-2018)

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### HOD's Message



**Dr. B. S. Patil**

HOD. Department of Civil Engineering

I am very happy to publish this issue of departmental newsletter SthapathyaVaarta. This issue is a reflection of the activities happened in the department in last semester. The credit of combining most of activities in the form of such newsletter goes to the editorial team of students. On behalf of my department I am also thankful to executive director hon'ble Shri Anil Bagane & Principal Dr. S.A Khot, who are keeping us motivated all the time. Last but not the least I am also very much thankful to my departmental faculty members & supporting staff for their over all contribution towards the success of the department.

## Best Emerging Institute:



The institute has got Best Emerging Institute Award for the year 2017 by Indian Society for Technical Education , New Delhi

**Sharad Institute of technology College of Engineering is Affiliated to Babasaheb Ambedkar Technological University , Lonere**





## DAAB committee:

Sr. No.	Name of person	Designation
1	Prof. Dr. S. N. Tande	Other Academic Institute Faculty-Member
2	Prof. Dr. R. D. Padhye	Other Academic Institute Faculty-Member
3	Mr. S. S. Deshpande	Industry Person-Civil Engg-Member
4	Mr. Nitin Patil	Industry Person-Civil Engg-Member
5	Mr. Girish Lohana	Parent-Member
6	Dr. B. S. Patil	Head of Department and committee
7	Mr. A. C. Chougule	Secretary
8	Dr. K. A. Bhagate	Member
9	Mr. S. S. Chougule	Member
10	Mr. M. H. Mota	Member
11	Mr. Y. S. Patil	NBA Coordinator and B.E. Class Teacher Member
12	Mr. R. M. Garud	S. E. Class Teacher Member
13	Mr. A. B. Patil	T. E. Class Teacher Member
14	Mr. R. V. Jugdar	NBA Coordinator
15	Miss. Kshitija Balwan	SIT Alumni
16	Mr. Ulhas Agsar	SIT Alumni
17	Mr. Prathmesh Wani	Current student B.E. Class
18	Miss. Supriya Kharade	Current student T.E. Class

## Guidance beyond Curriculum:

- 1) Awareness session by. Dr. Sneha Dharnaik (I Gate academy, Pune) guided the students of Civil Engineering department on : 7/07/2017.
- 2) Sustainable Development : 22/7/2017
- 3) Engineering Ethics : 28/7/2017



## Knowledge off the campus

Sr. no.	Place/ Site visited	Subject	Date of Visit
1	Runwal Towers , Ichalkaranji	Design of Concrete Structures 1	9-9-2017
2	Ichalakaranji WTP	Enviornmental Engineering 1	13-9-2017
3	Sharad Agricultural, college ,Jainpur	Water resource engineering 1	13-9-2017

### Runwal Towers , Ichalkaranji



### Ichalakaranji WTP





## Faculty Development Programme (FDP):

Date	Resource Person	Topic
16-9-2017	Dr. Sameer Sahasrabudhe	Mechanism to increase collaboration
16-9-2017	Prof. Sahana Murthy	Teaching and Learning Process
16-9-2017	Mr. Jayakrishna	Lab activity Session
17-9-2017	Prof. Sridhar Iyer	Simulations in Teaching and Learning
07-09-2017	Mr. Jayakrishna	Moodle for Higher order Learning Outcome



## Our proud toppers :



**Ankita Bankar**  
SE ( Civil )



**Aishwairya Mahavir Patil**  
TE ( Civil )



**Shubham Rakesh Nirmal**  
BE ( Civil )

## **Projects beyond curriculum - Ongoing Mini Projects**

Sr No.	Project Title	Guide
1	Building Planning and Modelling	Mr. S.S. Magdum
2	Model of Stairs	Mr. S.S. Magdum
3	Cement Cube Testing	Mr. A. B. Patil
4	Earthquake resisting System	Mr. B. B. Sawant
5	Hydraulic bridge	Mr. R. M. Garud
6	Market Survey	Mr. R. M. Garud
7	Stability of High Rise Building	Mr. S.S. Magdum
8	Model of Truss	Mr. S. S. Magdum
9	Gabion Structure	Mr. S. S. Yadav
10	Traffic Study	Mr. B. B. Sawant
11	Market survey of Building Materials	Mr. R. M. Garud
12	Lekage in Building	Mr. S. S. Yadav
13	Market Survey of Plumbing Material	Mr. S. S. Yadav

## **Ongoing Final Year Projects:**

Sr No.	Project Title	Guide
1	Effective Utilization of Plastic Waste for Casting of Paving Blocks	Mr. M.H.Mota
2	Performance evaluation of Existing WTP	Mr. M. H. Mota
3	Geopolymer Concrete using GGBS based GPC with steel timber	Mr. S. S. Chougule
4	Personnel Management of construction workers in Kolhapur city.	Dr. B. S. Patil
5	Study of Retaining Wall with Relief shelf	Mr. A.C. Chougule
6	Comparative Study of Post tensioned and RCC Slabs in Multistoried Commercial Building	Mr. B. B. Sawant
7	Use of Coconut Fiber in Concrete	Mr. A.B. Patil
8	Comparative study of different Materials for Retrofitting of Bea	Mr. R.V. Jugdar
9	To study Mono media Filter using Filter aid	Mr. S.A.Patil
10	Study of Bricks made From Plastic Waste	Mr. S. S. Chougule
11	Assessment of Quality of Underground Water at Jambhali and Haroli	Mr. M. H. Mota
12	Behaviour of Structure Infill Wall and without Infill Wall for Earthquake load	Mr.S.A.Patil
13	Design and Analysis of Pre-Engineering Building	Mr. S.S.Magdum



## **CESA activities so far:**

- 1) CESA – Formation
- 2) Worlds Photography day
- 3) Krantidin Celebration
- 4) Water Testing Camp

### **Worlds photography day**



### **Krantidin celebration**



## Water Testing Camp in Three Villages by CESA

Under the social responsibility of Institute and department of Civil engineering the students of civil engineering student association had conducted the water testing camps in three villages i.e. Takawade, Abdullat, Shiror. , in the month of August 2018. Students have tested more than 250 water samples provided by the villagers for its suitability for drinking. They have also provided the useful information to the villagers about the quality of water , its treatment and significance of different water quality parameters for day to day life. All people from this villages have benefited by this activity. This is second time , the students have conducted such camps in nearby villages.





## Campus Drive

Following candidates are selected in the pool campus drive of Earth infrastructure LTD held at Sharad Institute of Technology on 18th September 2017.



**Patil Sakshi A.**  
Branch (Civil)  
HSG & Earth Infra



**Patil Vivek D.**  
Branch (Civil)  
HSG & Earth Infra



**Mulla Wakaryunus D.**  
Branch (Civil)  
Earth Infra & Bhiwara Infotech



**Patil Prasad**  
Branch (Civil)  
Earth Infra



**Khabade Ashitosh**  
Branch (Civil)  
Earth Infra



**Barade Poonam**  
Branch (Civil)  
Earth Infra



**Powar Priyanka**  
Branch (Civil)  
Earth Infra

## UG Fellowship

**Mitesh Balwan went to Russia for U.G. fellowship. The details are as follows.**

- Course duration – 45 days ( 13 June to 23 July)
- Project name- Precast concrete structure of multiple store building
- Project Guide- 1) Prof. Zoya V Belyaeva  
2) Prof. Evgeniy A Redikultsev

### Overview of Project-

- Design a precast structure of a multiple store building with Russian and Indian codes , the structure should be designed wrt safety , economy, transportation, and erection considerations  
Economy of designed members was checked by – AtomstroyKomplex (a precast construction company)



## The personality:

### Isambard Kingdom Brunel



**Famous as :** Civil Engineer

**Nationality :** British

**Birthday :** April 9, 1806

**Died At Age :** 53

**Sun Sign :** Aries

**Born in :** Portsmouth, England

**Father :** Sir Marc Isambard Brunel

**Mother :** Sophia Kingdom

**Spouse/Ex-spouse :** Mary Elizabeth  
Horsley

**Children :** Florence Mary Brunel, Henry  
Marc Brunel, Isambard Brunel Junior

**Died on :** September 15, 1859

**Place of death :** London, England

(Isambard Kingdom Brunel, Source- wikipedia)

Isambard Kingdom Brunel was a great English civil engineer who lived during the 19th century. He was the man who built the Great Western Railway, the railway company which linked London with the west part of England. The company, which pioneered the use of large, more economic wagons, was known as "God's Wonderful Railway". Brunel was a civil engineer with a highly innovative mind. He was always open to experimenting with different engineering techniques and ideas in order to devise better solutions to the existing problems. Many "firsts" in British civil engineering are credited to him. A risk-taker, he was never afraid to move away from traditionally held notions nor was he loath to implement unconventional concepts. He came up with the idea of building a tunnel under a river and played a pivotal role in the development of the first propeller-driven iron ship meant to sail on the oceans thus revolutionizing naval engineering. His brilliant mind could have achieved much more, if he had not been a heavy smoker. He suffered a stroke and died when he was just 53. Named at the second place in a BBC public poll, „100 Greatest Britons“, he was a much celebrated civil engineer during his time; several monuments erected in his honor are testament to the fact that is revered in today's times too.



### Lake Kariba (1963)

By volume, Lake Kariba is the largest man-made reservoir in the world, sitting miles north of the Indian Ocean on the border of Zimbabwe and Zambia. Covering a total area of 5580 squarekilometers this lake has a max capacity of 185 cubic km of water. This is so much water that the excess weight is theorized to have caused over 20 earthquakes in the area since its construction.

Like all man-made lakes, this volume of water is held back by a large dam, pictured below. If the dam were to fail, millions would lose their lives and damage from the resulting flood would extend through multiple countries



(Lake Kariba , Source- wikipedia)

## Three Gorges Dam (2003)



(Three Gorges Dam , Source-wikipedia)

The world's largest dam, as well as largest hydroelectric power plant, stands tall at 185 m. Its name comes from the fact that it floods three rivers, the Qutang, Wu Xia, and Xiling. The hydroelectric plant is built inside the walls of the structure, producing a total of 4.7 billion kWh each year. During construction, builders used 27.2 million cubic metres of concrete. That's enough concrete to fill 10,200 Olympic sized swimming pools.

### CESA Committee

President

**Priyanka Lohana**

Vice President

**Mitesh Balwan**

Treasurer

**Prathamesh Wani**

Secretary

**Shubham Dongare**

Faculty co-ordinator

**Mr.Ranjit Jugdar**



## Newsletter Committee:



**Mr. Shantanu Magdum**  
**Faculty Coordinator**

The publication of Fifth newsletter gives us immense pleasure. I am happy to see the progress of the department since the first issue. The student's initiative, participation and coordination in departmental activities over the last semester and also their efforts in publishing the issue gives us boost to escalate our ambition for the departmental activities. I am very much thankful for the efforts taken by the departmental faculty, students and also for the support of our beloved Executive Director, Principal and all the faculty members of the department. I wish bright success to all students for the current semester.

Student Coordinator (Mr. Suraj A. Patil):

I am honored to work as chief coordinator of civil departments newsletter . Its my immense pleasure to publish our departments third newsletter which highlights departmental success and focus on future development. I take an opportunity to thank my entire faculty , coordinator and volunteer students and non teaching staff for their valuable support and help in publishing this newsletter.

## Committee members:

1. Aditya Shinde
2. Satej Patil
3. Sumit Shridhar Kininge
4. Rotit Jalandar Patil
5. Rajesh Hanmant Ingale
6. Rushikesh Rama Jadhav





# Vision Mission Statement & Quality Policy Statement

## Vision of Civil Engineering Department

To be a centre of excellence in various sub branches of Civil engineering like Structural and Environmental engineering to prepare professionally competent engineers with lifelong learning attitude for the accomplishment of evergrowing needs of society.

## Mission of the Civil Engineering Department

To prepare technically and professionally competent engineers by imparting quality education through effective teaching learning methodologies and providing stimulating environment for research and innovation.

To develop professional skills and 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 environment.

## Quality Policy of Civil Department

At our department, we will strive for excellence in civil engineering education in order to develop professionally competent civil engineers by creating congenial and discipline environment involving all stake holders and adopting continuing improving standards.

## Program Educational Objectives (PEOs)

**PEO I:** Demonstrate capabilities to develop optimal solution to the real world engineering problems by applying theory based practical approach of engineering and related engineering disciplines.

**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.





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