

Shri.Shamrao Patil (Yadravkar) Educational and Charitable Trust's

Sharad Institute of Technology college Of Engineering Yadrav, Ichalkaranji

" STHAPATYA VAARTA "

THE BIENNIAL NEWSLETTER OF CIVIL ENGINEERING DEPARTMENT
(2018-2019)

Vol: 04 ISSUE: 01



INSIDE THIS ISSUE

- | | |
|--|----------------------------|
| 1) Best Teacher Award | 12) Techno Page: |
| 2) New Faculty Members | a. Mubarak Pumping Station |
| 3) DAAB Committee | b. Delaware Aqueduct |
| 4) Guidance beyond curriculum. | 13) CESA Committee. |
| 5) Knowledge off The Campus. | 14) News Letter Committee |
| 6) Faculty Development Programme | |
| 7) Our Proud Toppers. | |
| 8) Implementation of Knowledge-Mini Projects/Projects. | |
| 9) Publication of Civil Department | |
| 10) VAP | |
| 11) The Personality: George stephenson | |

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'bleShri 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 doing each & everything, they did to contribute towards the success of the department.

Best teacher award



S S Yadav

New Faculty Members :



Prashant Rangrao Jagtap
M.E. (Structures)
(Ph.D)



Mr. Mukesh Anil Dhatunde
M.Tech (Construction Management)



Mohammedali Bapu Pendhari
M.E. (Structures)



Rupesh Balwant Satpute
M.tech. (Water Resource engineering)

DAAB committee:

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

Guidance beyond Curriculum:

1. "Stress management". Mr Sachin Shedbale (Rotary club Jayasingpur) guided the students of civil department on date : 23/01/2018
2. "Be employable: why we fail". Mr Sameer Alone (Infini Institute of programme management) guided the students of civil department on date : 8/02/2018
3. "Remote Sensing and GIS" Prof. SV Pathare(Assistant professor ; Geology department) guided the students of civil department on date : 05/02/2018
4. "Identification , Treatment, regarding snakes and conservation of other animals" Digvijay Kitture(Assistant lecturer , Gurukul English school) guided the students of civil department on date : 31/1/2018

Knowledge off the campus

Sr. no.	Place/ Site visited	Subject	Date of Visit
1	Waste Water Treatment Plant	Environmental Engineering II	20 March 2018
2	Narayan Mala, Ichalakaranji	Building Design and Drawing	10 March 2018
3	Chandoli Dam and Power Station	Water Resource Engineering II	15 March 2018

Chandoli Dam and Power station



Narayan mala Ichalakaranji



Faculty Development Programme (FDP):

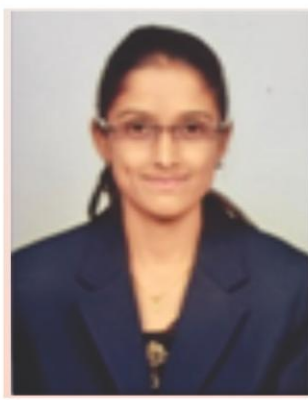
- 1) Outcome based education-Dr. S.S. Ahankari-30/10/2017
- 2) Co-curricular and Extracurricular activities-unnat bharat abhiyan-31/10/2017
- 3) Discussion session on teaching learning process-Dr. M M Awati- 1/11/17
- 4) Discussion on attainment of Co and Po-2/11/17
- 5) Intellectual property rights and patents-3/11/17



Our proud beings our toppers :



Shubham Rakesh Nirmal
BE (Civil)



Patil Aishwairya Mahavir
T E (Civil)



Patil Rohit Jalandar
SE (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	Model of truss	Mr.S.S.Magdum
8	Gabion Structure	Mr.S.S.Yadav
9	Traffic Study	Mr.B.B.Sawant
10	Market Survey Of Building Materials	Mr.R.M.Garud
11	Leakage in building	Mr.S.S.Yadav
12	Market survey of plumbing material	Mr.S.S.Yadav
13	Stability of high rise building	Mr.S.S.Magdum

- *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 Study of GGBS based GPC with steel fiber	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	Dr. A. C. Chougule
6	Comparative Study of Post Tensioned and RCC Slab in Multistoried Commercial Building.	Mr.B.B.Sawant
7	Use of cocunt fiber in concrete	Mr. A.B.Patil
8	Comprative study of Different Materials for Retrofitting of Beams.	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	Assesment of quality of underground water at jambhali & haroli	Mr. A.B.Patil Coguide -Mr.M.H.Mota
12	Bheviour of structure infill wall &without infill wall for earthquake load	Mr. S.A.Patil
13	Design & Analysis of Pre- Engineered Building	Mr. S.S.Magdum

Publication from Civil Department:

1 ROLE OF SOCIAL SERVICE ORGANIZATIONS IN MANAGING THE DISASTERS

Prof (Dr) B.S.PATIL

2 COMPARATIVE STUDY OF POST TENSIONED AND R.C.C. SLAB IN MULTISTORY COMMERCIAL BUILDING

Waichal Sagar Ashok, Patil Dadaso Shripati, Mulla Waqaryunus, Dildaradilshaha,
Nemishte Rohan Deepak, Shinde Rushikesh Sanjay

3 STUDY OF STEEL BUILDING & COMPARISON OF PRE-ENGINEERED BUILDING WITH CONVENTINAL STEEL BUILDING

Nilesh Kharade, Sumit Jadhav, Akshay Kotkar, Prof. Shantanu Magdum

4 STUDY OF RETAINING WALL WITH RELIEF SHELF

M. D. Patil, A. S. Patil, S. S. Shinde

5 OPTIMUM POSITION OF SHEAR WALL IN WITH BRICK INFILL AND WITHOUT BRICK INFILL STRUCTURE

Ajay D. Bhujbal , Omkar p. Saptasagare, Karan R.Dhavale ,
Avadhut K.Modake, Prof. S.A.Patil

6 COMPARATIVE STUDY OF DIFFERENT MATERIALS FOR RETROFITTING OF BEAMS

D. S. Mhaishale, S. R. Machivale, S. K. Kangralkar, S. C. Jamadar, S. S. Mujawar

7 INVESTIGATION OF COCONUT SHELL AS A REPLACEMENT OF COARSE AGGREGATE IN CONCRETE.

Mr. Shashiraj S Chougule, Mr. Manoj H Mota, Mr. Amit D Chougule,
Mr. Vishal V. Kamble.

8 DESIGN OF WATER DISTRIBUTION NETWORK FOR EXTENSION OF KAVALAPUR VILLAGE

Aishwarya Mahaveer Patil, Rutuja Pramod Magdum, Supriya Praddep Magdum,
Rakshanda Annaso Chougule Mr.M.H.Mota

Paper published by ("International Journal of Research in Advent Technology"
(E-ISSN: 2321-9637) Special Issue National Conference)

9 EFFECT OF WASTE WATER DISCHARGE ON RIVER WATER QUALITY

Patil Manoj Vijay, Patil Pankaj Nemgonda, Parit Rushikesh Suresh, Olekar,
Sanket Hemantkumar, Patil Anup Gundurao

10 EXPERIMENTAL STUDY OF THE EFFECT OF ALUM SOLUTION ON THE TURBIDITY REMOVAL OF CONVENTIONAL RAPID SAND FILTER

Mr. Manoj H Mota, Mr. Amit D Chougule, Mr. Shashiraj S Chougule,

11 PERFORMANCE EVALUATION OF EXISTING WATER TREATMENT PLANT TO REMOVE THE TURBIDITY IN MONSOON PERIOD

Prasad Vijay Patil, Vivek Dadaso Patil, Chaitanya Narendra, Mahajan, Harshavardhan
Ashok Patil, Bajirao A. Kamble
Sessional Engineer Ichalkaranji Municipal Council

Value added programme(VAP):

Programe Organised by Depertment - Total Station



The personality

George Stephenson



Famous as: Father of Railways

Nationality: British

Birthday: June 9, 1781

Died At Age: 67

Sun Sign: Gemini

Born in: Wylam

siblings: Robert Stephenson

children: Robert Stephenson

Died on: August 12, 1848

place of death: Tapton House

Founder/Co-Founder:

Liverpool and Manchester Railway, Institution of Mechanical Engineers, Robert Stephenson and Company

discoveries/inventions: Steam Locomotive, Killingworth Locomotives, Stephenson's Rocket, MyLord

Image Credit

Popularly referred to as the Father of Railways, George Stephenson was a British inventor whose pioneering work in the field of civil and mechanical engineering led to the establishment of the world's first public inter-city railway line that used steam locomotives. His is a perfect rags to riches story – from being born in a financially weak household to becoming a self-made engineer who not just re-shaped the transportation industry but brought about a major industrial revolution as well. It was due to him that animal power gave way to steam locomotive that eventually led to world's first public railway line. Apart from building the first railway line, Stephenson is credited with inventing the most famous early railway locomotive, Rocket. Furthermore, it was Stephenson who devised the four feet eight-and-a-half inches railway gauge that has become a standard gauge by convention for most of the world's railways till date. He is also responsible for developing a miners' safety lamp that dramatically reduced the risk of explosion in the mining industry. Overall, Stephenson's contribution has been immense as the inventor of railroad locomotive

Childhood & Early Life

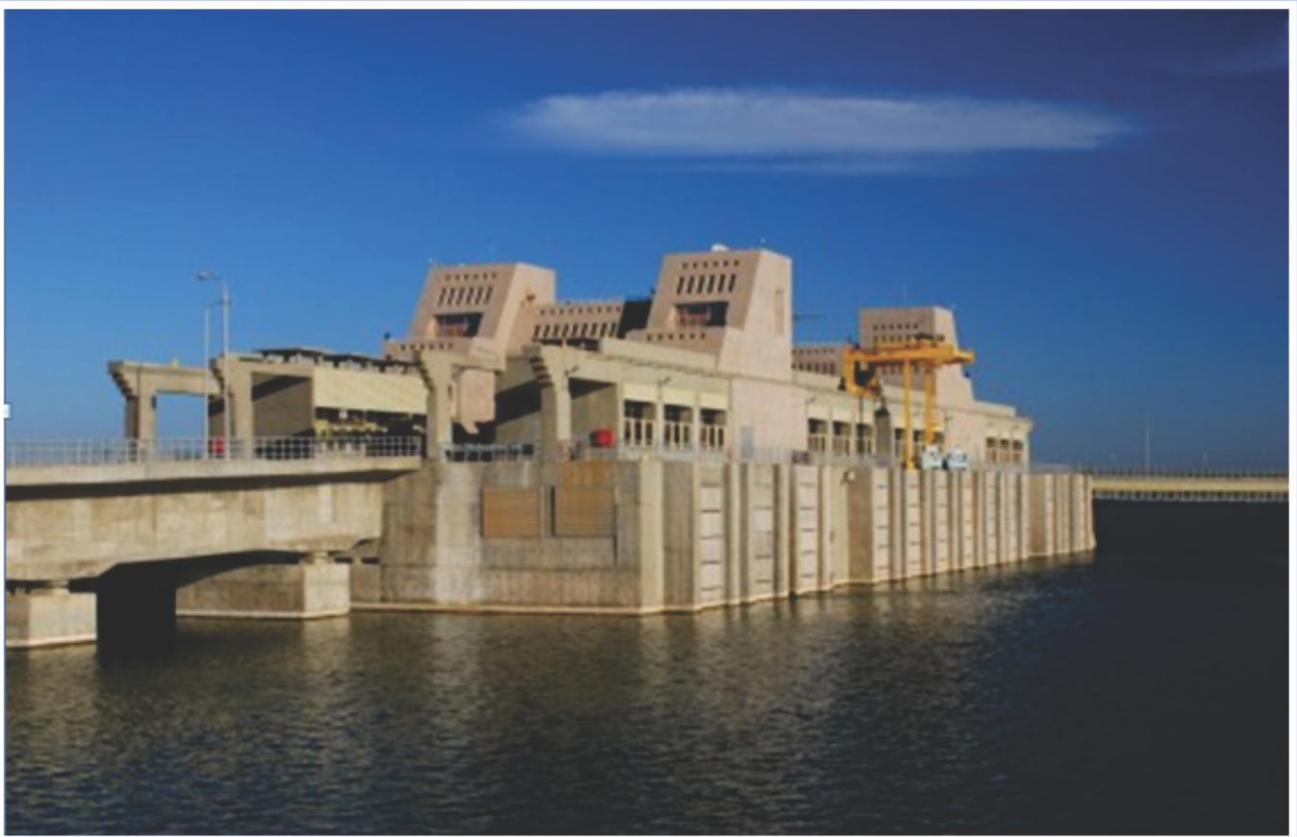
George Stephenson was born on June 9, 1781 in Wylam, Northumberland to Robert and Mabel Stephenson. His father was a fireman with meagre means.

Born in a financially weak household, education was a luxury which Stephenson could not afford. He took to working as a Newcomen engineman when he was 17. The money gained from the job was spent studying in a night school where he learned how to read and write. He even learned mathematics.

Mubarak Pumping Station (2005)

Like many other countries, Egypt has experienced exponential growth in recent years. Much of the country of Egypt is arid desert, and in an effort to expand usable land, engineers built a pumping station aimed at making up to 25% of Egypt's land habitable. Before this project, only 5% of the country's land was considered to be able to sustain human development and life.

The Mubarak Pumping station is part of a civil engineering plan called the Toshka Project. The station hub is designed much like an island with the structure positioned in the center of Lake Nasser. 24 vertical pumps help channel the water to the surrounding cities from this central location



(Mubarak Pumping Station , Source- wikipedia)

Delaware Aqueduct (1945)



(Delaware Aqueduct , Source-wikipedia)

New York City is a hub for tourism, business, and the arts, but it also is home to roughly 8.5 million people. Like all heavily populated areas, the issue of fresh water supply comes into question. The Delaware Aqueduct, while possibly one of the least identifiable projects on this list, is not lacking in its civil engineering wonder. Spanning a total of 137 km, this major aqueduct holds the title of longest tunnel in the world. Almost 50,000,000 cubic meters of water is supplied through this tunnel each day to the U.S.'s largest city. This accounts for over half of the total water supply, making this project vital to the lives of millions of American citizens.

CESA Committee

President

Shubham Danane

Vice President

Wagaryunus.D.Mulla

Treasurer

Nilesh .R.Patil

Secretary

Supriya.S.Kharade

Faculty co-ordinator

Mr. Yogesh S. Patil

Newsletter Committee:

Faculty Coordinator



Mr. Shantanu Magdum

The publication of this 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. Satej 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.



" STHAPATYA VAARTA "

THE BIENNIAL NEWSLETTER OF CIVIL ENGINEERING DEPARTMENT

