

NIRMAAN

HALF YEARLY MAGAZINE



SANDIP
FOUNDATION



CIVIL ENGINEERING



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SANDIP INSTITUTE OF TECHNOLOGY AND
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SANDIP
FOUNDATION

NIRMAAN



Vision of Institute

“To be an acclaimed Institution for learning and research.”

Mission of Institute

- ❑ **M1:** To impart in-depth technical knowledge
- ❑ **M2:** To create conducive environment for research, innovation & entrepreneurship
- ❑ **M3:** To instill the social & cultural values

Vision and Mission of Department

VISION:

To impart value-based state of the art knowledge in civil engineering and to serve the society by nurturing research, innovation and entrepreneurship.

MISSION:

M1: To build a concrete bond with all stakeholders for holistic development of society

M2: To develop an ecosystem to emulate research in civil engineering domain

M3: To nurture innovative approach and entrepreneurship skills to pursue excellence in all facets



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Leading Engineering College in Nashik

Sandip Foundation established in 2005 as a Charitable Trust under the Chairmanship of Hon'ble Dr. Sandip Kumar Jha with a vision to render selfless, dedicated service to higher education in the fields of Engineering, Management and Paramedical Sciences. The trust has proved its proficiency in education for last twelve years. Under the umbrella of Sandip Foundation, Sandip Institute of Technology and Research Center was established in the year 2008.

Vision of Department

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Mission of Department

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- ❑ **M3:** To nurture innovative approach and entrepreneurship skills to pursue excellence in all facets.

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Learn from your experiences for these is no greater tutor than life itself.

From Chairman's Desk

Learn from your experience, for there is no greater tutor than life itself. I am happy to pen down a few words as prologue to our Newsletter which is exclusively meant for churning out the latent writing talent which bears immense potentiality of sharpening our students' skills as part of their overall personality development. I congratulate all the team members and contributors of this Newsletter for bringing out such a beautiful Newsletter. Walk with those who feed your mind with motivation to further your mission. Wake up hungry for success every day; your drive for success must match the ferocity of a hungry lion attacking his prey every morning. An educated person without morals is like a room without windows. I think that morals are what ground us as a society, and without morals we would have no light to guide our educated minds. We, at Sandip Foundation, strive to make our students reliable technocrats and trustworthy citizens of India. My staunch faith and conviction is that our students would carve a niche in their career and life by going lineage and heritage through this temple of learning. I would like to take this opportunity to reiterate that there is no substitute to hard work in any venture. Therefore, it should be our endeavor to give our best in our areas of responsibilities and aim at achieving excellence for our institution. I wish all success to this venture.

HON'BLE DR. SANDIP N. JHA
Chairman, Sandip Foundation

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Principal, SITRC, Nashik

From Principal Desk

“A dream is not that which you see while sleeping, it is something that does not let you sleep! “Dr. A.P.J. Abdul Kala. We, at SITRC, Nashik believe in the same philosophy. SITRC, Nashik started its journey to produce world class technocrats with competent skills in various technologies for serving the society. Our every effort ensures that we achieve our goals. Competent faculty is our asset. Each and every team member is passionate in achieving our goal. We always motivate our faculties to be an active part of our team. Nature is our friend here in the pleasant environment of Sandip Foundation. It rejuvenates the body, mind and intellect of our students as well as staff members. The aim behind all our co-curricular and extra-curricular activities is to provide an impetus to our young minds to explore new dimensions of life and to do innovation in their field. Some people think in terms of problem, some people think in terms of solution. We, at SITRC, Nashik , insist our students to be a problem solver. Students are motivated to make some mini and micro projects to utilize their knowledge practically. This is a platform to showcase their creativity. To increase employability of our students, certain Skills Development Programs have been introduced and implemented effectively by our institute. Due to globalization, liberalization and privatization, there is a cut throat competition in the market. We, by imparting practical knowledge to our students, make them industry ready. So the skill set gives them confidence to withstand the competitive world. Come, feel the difference. Rejuvenate mind and intellect. We assure quality education at its best at SITRC, Nashik and Sandip Foundation.

SITRC, Nashik

Prof. (Dr.) M. M. Patil, Principal, SITRC, Nashik

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Message from
HOD Civil Engineering Department

From HOD's Desk

I welcome you all to Civil Engineering Department, the institution which has set the benchmark for quality teaching learning process. The institute strives to provide the world class faculties and facilities so that we will see you all blossom into empowered and sensitive human being. Education is the manifestation of love and my most cherished possession. It drives away the ignorance and through illumination it emboldens a man to a righteous thought and action. It energizes a society and enables a man to earn his living with respect and praise. In order to accomplish our vision and mission, we are prepared to take as much effort as possible for the betterment of academic scenario in India. Our institute cares for the individual development of each and every student. We follow the mentor system under which each class is put into multi-prolonged web of a teacher. We accord prime importance to the behavioral discipline, moral integrity and cognitive developments of our students. Our faculties strive to teach not only academic programs but also life skills needed for students.

Dr. Jyotiprakash G. Nayak,
HOD, Civil Engineering Department

ABOUT CIVIL ENGINEERING DEPARTMENT

The department started its operation in the academic year 2014-15 and is instrumental in providing degree granting graduate level course in Civil Engineering with the intake of 60 students per academic year. Department proudly boasts the convergence of leading researchers from all over India in the teaching faculty pool. Corporates heavyweights have taken the initiative to act as advisor to faculty members and hence the curriculum is not only research-led and cutting edge but it's also aligned to the present day requirements in industries.

Department has well equipped laboratories with ultra-modern instruments. Students of the department are enriched by guidance of highly qualified and experience faculty members. Department having active consultancy cell providing consultancy facility for soil/building material testing, field testing for civil engineering projects.

This directly helps in producing industry ready graduates who can add value in the organization right from the day one.

Department Information

Programme:- Civil Engineering
Year of Establishment:- 2014-2015
Intake Capacity:- 60

CIVIL ENGINEERING TOPPERS

Sr. No	Name of Student	Enrolment No	Class	SGPA	Grade
1.	Bhasme Samdhan Kalu	S190610009	SE	8.73	First Class with Distinction
2.	Sangle Harish Praksh	T190610066	TE	9.52	First Class with Distinction
3.	Mustafa Jarmam	B190610037	BE	9.5	First Class with Distinction

PAPER PUBLICATIONS

Many Congratulation for Publications

- Rashmi J. Nayak a, **Jyotiprakash G. Nayak** (2023) TSDC and EDX studies of pure and ferrocene doped Polysulfone, Materials Today: Proceedings, <https://doi.org/10.1016/j.matpr.2023.05.650>
- **Chintaman Bari**, Ashish Dhamaniya, Satish Chandra, (2023) Drivers' Willingness to Shift Towards Electronic Toll Collection System in India, Case Studies on Transport Policy, <https://doi.org/10.1016/j.cstp.2023.101046>

WORKSHOP

Concrete mix design workshop

Name of Event:

Concrete mix design .

Date of Expert Lecture:-

08.08.2022

Location:-

Seminar Hall, Mechanical Engineering Department, D Building, SITRC.

Participants:- All civil department Students

Objectives:-

1. To get acquainted with Concrete Mix Design Process.
2. To understand Practical aspects of Concrete Mix Design.
3. To understand the procedure of various tests conducted on concrete.



EXPERT LECTURES

Tekla Training Course

Title: Webinar On Certified Tekla Training Course

Date: 10/08/2022

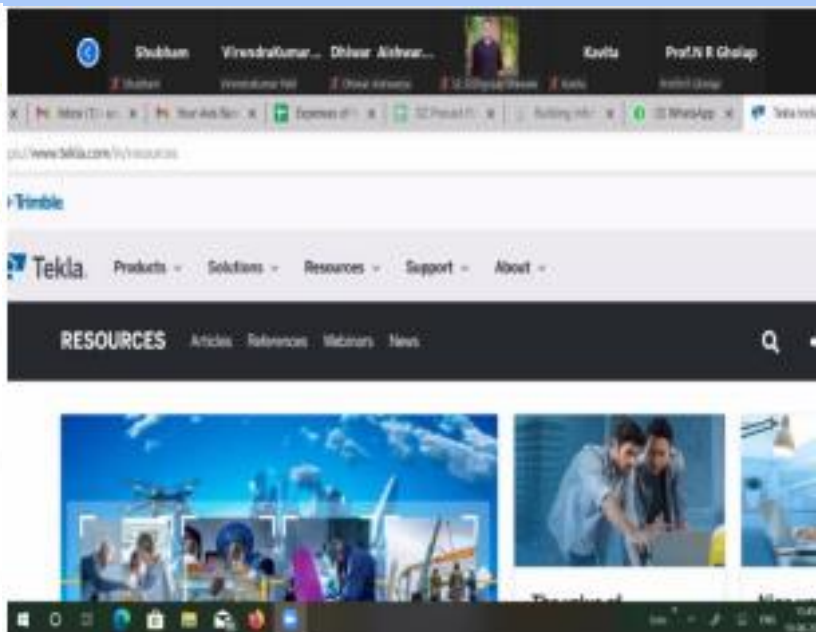
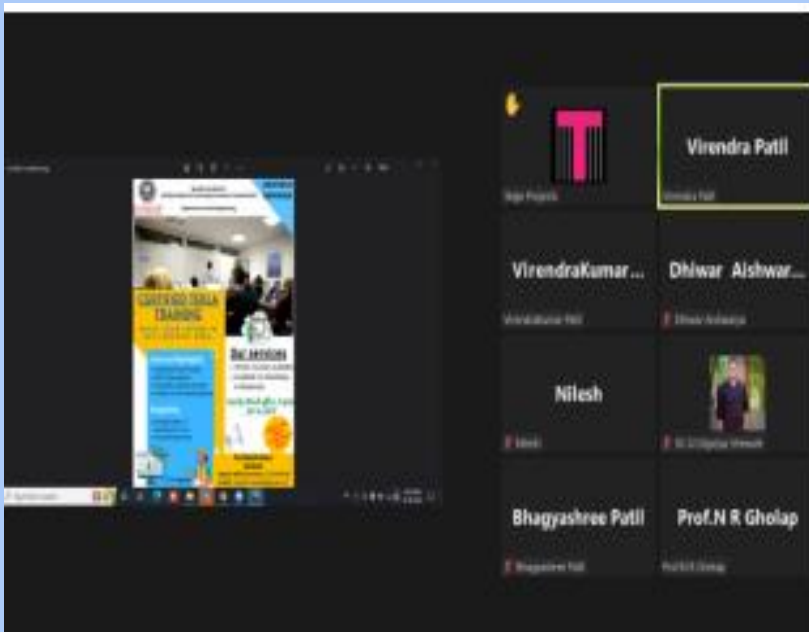
Venue: Online (Google Meet)

Event Resource Person Details :Mr. Nilesh Chincholkar (8411888010)

Event Objective:

To get knowledge of various Civil Engineering software from this webinar.
To understand new technologies will help students to get a job in MNC company..

Event Summary:Uniotech services and Department of Civil Engineering has organized webinar on certified Tekla Training Course as they interact with students regarding their experience, expertise and share their knowledge. First session was conducted regarding “Typical problems in Construction Industry”. Second session was conducted regarding “Evolution of Design Process” by Mr. Nilesh Chincholkar.



EXPERT LECTURES

How to Crack the GATE

Title: Guest Lecture on “How to Crack the GATE” organized by Department of Civil Engineering

Date: 21/07/2022

Venue: Online (Google Meet)

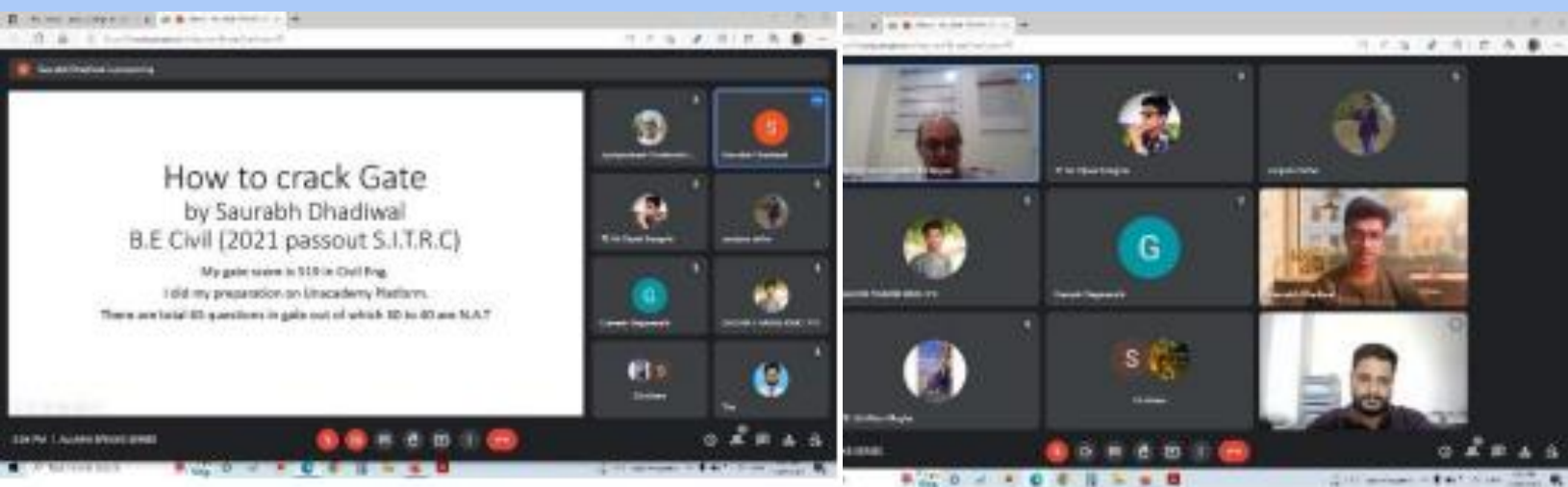
Event Resource Person Details :Mr. Saurabh Dhadiwal, Alumni

Event Objective:

To get acquainted with GATE syllabus and question paper pattern.

To understand strategy for the preparation of GATE

Event Summary: Civil Engineering Students Association (CESA) and Department of Civil Engineering has organized series names as “Alumni Speaks” in which alumnae of the department will interact with students regarding their experience, expertise and share their knowledge. First session was conducted regarding “How to Crack the GATE” by Mr. Saurabh Dhadiwal who is alumni and qualified GATE in previous year.



INDUSTRIAL VISITS



To celebrate World Environment Day -2022

Name of Event:

Blog Competition on World Environment Day -2022

Date of Visit:-

5th June 2022

Visit Location:-

Department of Civil Engineering of SITRC, Nashik.

Participants:-

BE Civil engg. Students

Objectives:-

- 1.To create awareness of
 - a. Plastic Waste: Threat & Management
 - b. Need & Ways of Water Conservation

To visit Catch The Rain

Name of Event:

Catch The Rain

Date of Visit:-

21/07/2022, 23/07/2022 & 26/07/2022

Visit Location:-

Mahiravni, Belgaon-Dhaga, Wasali, Jategaon & Talegaon Village of Nashik

Participants:-

TE. civil Students

Objectives:-

To get information of water saving of the villages, Mahiravni, Belgaon-Dhaga, Wasali, Jategaon & Talegaon

Sandip Foundation's
Sandip Institute of Technology & Research Center,
Nashik
Department of Civil Engineering
In Association with
Unnat Bharat Abhiyan Cell & MoE IIC
Organizes
"Blog Competition"
to celebrate the
World Environment Day on 5th June 2022

Date: 05/06/2022
Time: 8 am to 8 pm

Three Cash Prizes & E-Certificates to all participants

How to participate:
Write the blog of 800 to 1000 Words on any Topic :
1) Plastic Waste: Threat & Management
2) Need & Ways of Water Conservation

Link for Participation -<https://forms.gle/KG8nD4L6sRMCWDZF6>

Event Coordinator: Prof. Virendra Patil (8806185511)
Dr. J.G. Nayak HOD-Civil-SITRC
Prof.(Dr.) S. T. Gandhi Principal, SITRC



INDUSTRIAL VISITS

Site Visit to Railway Station

Name of Event:To visit railway station nashik road to get information

Date of Visit:-

14.11.2022

Visit Location:-

Railway Station Nashik Road Dist.Nashik,

Participants:-

TE Civil engg. Students

Objectives:-

1. Visit to learn the structural elements and Its objectives as civil point of view



Site Visit to Climatic Station

Name of Event:

To study Hydrological Equipments and Hydrological data

Date of Visit:-

26.08.2022

Visit Location:-

DGP NAGAR , Nashik

Participants:-

TE. civil Students

Objectives:-

1. To get knowledge and Information about Hydrological Equipment.



Site Visit to Bitumen Mix plant

Name of Event:

To study bitumen mix plant

Date of Visit:-

17.10.2022

Visit Location:-

Sonje Infrastructures Bitumen Plant, Vilholi, Nashik

Participants:-

TE civil students

Objectives:- To know working of different Units of Bitumen plant and making of bitumen mix.



INDUSTRIAL VISITS

Site Visit to Hydropower Plant

Name of Event:

Site Visit to Hydropower Plant

Date of Visit:-

17.03.2023

Visit Location:-

DLI Power India Private Limited
2 X 2.45 MW Darna Hydro Electric Project
Darna Dam, Tal - Igatpuri, Dist - Nashik.

Participants:-

BE Civil engg. Students

Objectives:-

- 1. To visit Hydropower station and to know the technical details



Dam Left Bank Canal

Name of Event:

Site Visit to Ganagapur Dam Left Bank Canal

Date of Visit:-

03.03.2023

Visit Location:-

Ganagapur Dam Left Bank Canal

Participants:-

BE. civil Students

Objectives:-

- 1. To study the various canal structures and their functions, suitability etc like Venturi flume, Cross Drainage works



Nilgiribaug Water Treatment Plant

Name of Event:

Water Treatment Plant
Neelam Sagar Earthen Dam
sandip foundation

Date of Visit:-

27.02.2023

Visit Location:-

Neelam Sagar Earthen Dam.

Participants:-

TE civil students

Objectives:-

- To study the various components of earthen dam



MOU's



Wonder Cement, Nashik
Sunil Bhor & Associates, Nashik
Shilpa Estates, Nashik
Bagad Group, Nashik
Sai Vatsal Associates, Nashik
P.R. Engineering & Consultancy P.Ltd. Nashik
Arteras Engineering Services P.Ltd. Nashik
ASCE, Nashik
Excellance foundation, Nashik
Maharashtra Engineering Reserch Institute, Nashik

Program Educational Objectives (PEOs)

PEO1: To perform well in the Engineering profession as competent professionals, using contemporary technical knowledge and professional skills.

PEO2: To pursue higher education and demonstrate intellectual curiosity for lifelong learning.

PEO3: To communicate effectively and work in multi-disciplinary environments embedded with ethical values and social responsibilities.

Program Specific Outcomes (PSOs)

PSO1: Apply the knowledge of basic sciences, geology and environmental science along with the conceptual knowledge of engineering sciences to illustrate the process involved in planning, analysis and design of sustainable Civil Engineering systems.

PSO2: Conduct laboratory experiments/ field investigations and analyze/ interpret the experimental results for appropriate conclusions and recommendations to a real-world Civil Engineering problems with a significant perspective of economy, society and environment.

PSO3: Demonstrate professional ethics and implement the principles of project management, business and public policy to lead the project execution as per the design requirement, with the state-of-the-art technology contemporary skills.

EDITORIAL TEAM

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Publisher

Civil Engineering Department SITRC, Sandip
Foundation Nashik

SITRC INFRASTRUCTURE

